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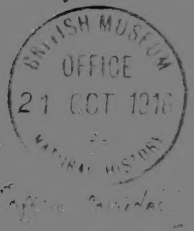

RETURN.

BRITISH MUSEUM.

1911.

Ordered, by The House of Commons, *to be Printed,*
18 *April* 1911.

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1911.

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BRITISH MUSEUM.

RETURN to an Order of the Honourable The House of Commons, dated 23 February 1911;—*for*,

COPY "of Account of the INCOME and EXPENDITURE of the BRITISH MUSEUM (SPECIAL TRUST FUNDS) for the Year ending the 31st day of March 1911; and, RETURN of the Number of PERSONS admitted to visit the MUSEUM and the BRITISH MUSEUM (NATURAL HISTORY) in each Year from 1905 to 1910, both Years inclusive; together with a STATEMENT of the PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and an ACCOUNT of OBJECTS added to them in the Year 1910."

Treasury Chambers, } C. HOBHOUSE.

(*Sir William Anson.*)

Ordered, by The House of Commons, *to be Printed*, 18 *April* 1911.

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1911.

119. *Price* 10½*d.*

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I.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

		CASH.	STOCK, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCES on the 1st April 1910 - - -		77 3 1	13,598 3 11
– DIVIDENDS received on 13,598*l.* 3*s.* 11*d.* Stock in 2½ per Cent. Consols, bequeathed by the Earl of Bridgewater, viz.:			
On the 5th April 1910 -	£. 84 19 9		
„ 5th July 1910 -	- 84 19 9		
„ 5th October 1910	- 84 19 9		
„ 5th January 1911	- 84 19 9		
		339 19 –	
– RENT OF A REAL ESTATE, Whitchurch, bequeathed by the Earl of Bridgewater (less repairs, &c.) - - - - - -		22 17 10	
– PROCEEDS OF SALE OF LAND, part of Whitchurch Estate (Bridgewater Bequest) - - -		50 – –	
	£.	489 19 11	13,598 3 11

II.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

		CASH.	STOCK, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCES on the 1st April 1910 - - -		205 14 8	2,879 10 7
– DIVIDENDS received on 2,879*l.* 10*s.* 7*d.* Stock in 2½ per Cent. Consols bequeathed by Lord Farnborough, viz.:			
On the 5th April 1910 -	£. 17 19 11		
„ 5th July 1910 -	- 17 19 11		
„ 5th October 1910	- 17 19 11		
„ 5th January 1911	- 17 19 11		
		71 19 8	
	£.	277 14 4	2,879 10 7

III.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

		CASH.	STOCK, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCES on the 1st April 1910 - - -		58 11 5	5,683 1 6
– DIVIDENDS received on 5,683*l.* 1*s.* 6*d.* Stock in 2½ per Cent. Consols, bequeathed by Dr. George Swiney for Lectures on Geology, viz.:			
On the 5th April 1910 -	- £. 35 10 4		
„ 5th July 1910 -	- 35 10 4		
„ 5th October 1910	- 35 10 4		
„ 5th January 1911	- 35 10 4		
		142 1 4	
	£.	200 12 9	5,683 1 6

BRIDGEWATER FUND, from the 1st April 1910 to the 31st March 1911.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By One Year's Salary of the Egerton Librarian -	175 – –	
– Amount expended on purchase of Manuscripts -	51 10 6	
– Balances on the 31st March 1911, carried to Account for 1911–1912 - -	263 9 5	13,598 3 11
£.	489 19 11	13,598 3 11

FARNBOROUGH FUND, from the 1st April 1910 to the 31st March 1911.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By Amount expended in purchase of Manuscripts -	95 – –	
– Balances on the 31st March 1911, carried to Account for 1911–1912 - - -	182 14 4	2,879 10 7
£.	277 14 4	2,879 10 7

SWINEY FUND, from the 1st April 1910 to the 31st March 1911.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By Amount paid to Dr. T. J. Jehu, for Lectures on Geology in 1910 - - - - - - -	140 – –	
– Balances on the 31st March 1911, carried to Account for 1911–1912 - - -	60 12 9	5,683 1 6
£.	200 12 9	5,683 1 6

IV.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of

		Cash.	Stock, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCE on the 1st April 1910 - - - -		—	565 3 9
DIVIDENDS received on 565*l.* 3*s.* 9*d.* Stock in 2½ per Cent. Consols, bequeathed by Dr. Birch in 1766, for the three Under Librarians of the British Museum, viz.:			
On the 5th April 1910 - -	£. 3 10 8		
,, 5th July 1910 - -	3 10 8		
,, 5th October 1910 -	3 10 8		
,, 5th January 1911 -	3 10 8		
		14 2 8	
	£.	14 2 8	565 3 9

V.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest and Extension of the Library and Reading Room of the British

	Cash.	Local Loans Stock.
	£. s. d.	£. s. d.
To AMOUNT of Local Loans Stock on 1st April 1910 - - - - - - - -	—	58,355 7 5
- DIVIDENDS received during the year - - -	1,771 9 3	
- AMOUNT of Local Loans Stock purchased with the Dividends - - - - - - -	—	1,874 14 –
£.	1,771 9 3	60,230 1 5

VI.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest 1st April 1910 to

	Cash.	Metropolitan 3½ °/₀ Stock.
	£. s. d.	£. s. d.
To AMOUNT of Metropolitan 3½ per cent. Stock on 1st April 1910 - - - - - - -	—	8,373 19 –
– DIVIDENDS received during the year - -	296 17 10	
– AMOUNT of Metropolitan 3½ per cent. Stock purchased with the Dividends - - -	—	293 2 4
£.	296 17 10	8,667 1 4

the **BIRCH FUND**, from the 1st April 1910 to the 31st March 1911.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By Legacy paid to the three Under Librarians of the British Museum, whose offices existed in 1766, viz., the Keepers of the Departments of Printed Books, Manuscripts, and Natural History - - - - - - - - -	14 2 8	
- Balance on the 31st March 1911, carried to Account for 1911-1912 - - -	—	565 3 9
£.	14 2 8	565 3 9

of the late **MR. VINCENT STUCKEY LEAN** (for the Improvement Museum) from the 1st April 1910 to the 31st March 1911.

	Cash.	Local Loans Stock.
	£. s. d.	£. s. d.
By Amount expended in the purchase of 1,874*l.* 14*s.* -*d.* Local Loans Stock, Commission, &c. - - - - - - -	1,771 9 3	
- Balance of Stock on the 31st March 1911 carried to account for 1911-1912 - - -	—	60,230 1 5
£.	1,771 9 3	60,230 1 5

of the late **MR. CHARLES DRURY EDWARD FORTNUM** from the the 31st March 1911.

	Cash.	Metropolitan 3½ °/₀ Stock.
	£. s. d.	£ s. d.
By Amount expended in the purchase of 293*l.* 2*s.* 4*d.* Metropolitan 3½ per cent. Stock, Commission, &c. - - - - -	296 17 10	
- Balance of Stock on the 31st March 1911 carried to account for 1911-1912 - - -	—	8,667 1 4
£.	296 17 10	8,667 1 4

Frederic G. Kenyon,
Director and Principal Librarian.

VII.—NUMBER of Persons Admitted to Visit the British Museum and the British Museum (Natural History).

A.—Persons Admitted to View the General Collections in the British Museum in each Year from 1905 to 1910, both Years inclusive.

	1905.		1906.		1907.		1908.		1909.		1910.	
	Week day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.
January	71,905	3,965	54,267	3,146	48,297	3,143	44,498	1,959	49,213	4,154	48,368	4,122
February	59,212	3,513	44,034	3,432	43,522	3,775	43,488	3,788	36,296	3,400	46,081	3,479
March	68,136	5,545	44,010	4,871	45,298	6,807	42,739	7,014	43,517	5,855	59,783	5,325
April	88,755	8,897	61,298	6,664	54,485	6,020	70,302	7,460	58,175	4,779	59,623	6,095
May	65,143	6,002	52,000	4,918	50,036	5,009	46,840	6,881	43,049	6,196	48,271	6,309
June	71,619	5,327	55,551	4,569	43,238	7,071	50,615	5,256	54,703	6,908	55,362	5,856
July	62,396	6,492	56,513	6,404	48,799	6,152	66,035	7,992	66,484	6,637	68,956	11,481
August	79,875	4,976	71,925	5,613	72,023	5,184	90,251	12,313	76,856	7,389	81,401	6,813
September	67,891	5,780	50,615	6,769	43,485	7,050	75,929	7,658	66,097	6,347	52,249	7,466
October	49,502	6,566	55,847	5,008	48,878	5,669	55,854	6,013	53,989	7,028	52,543	6,559
November	28,392	3,422	46,621	3,110	44,577	3,890	41,041	5,615	47,962	3,389	48,228	3,593
December	38,726	1,622	41,531	3,234	40,141	3,761	41,497	2,375	47,802	2,611	49,239	2,635
Total Number of Persons admitted to view the General Collections.	751,552	62,107	634,212	57,738	582,779	63,521	669,089	74,324	644,143	64,693	670,104	69,733
	813,659		691,950		646,300		743,413		708,836		739,837	

Number of Visits of Students to particular Departments.

——	1905.	1906.	1907.	1908.	1909.	1910.
To the Reading Room - - - - -	214,940	212,997	137,682	231,544	217,975	219,274
,, Newspaper Room - - - - -	21,857	19,723	20,098	19,019	21,122	19,200
,, Map Room - - - - - -	286	281	281	296	371	443
,, Department of Manuscripts - - -	10,623	11,414	11,854	12,370	11,683	11,256
,, Department of Oriental Printed Books and Manuscripts.	3,552	3,313	3,286	2,270	2,678	2,218
,, Print Room - - - - - -	8,614	8,396	8,590	8,990	9,343	9,343
,, Egyptian and Assyrian Department - -	2,750	2,668	2,550	3,100	3,260	3,020
,, Greek and Roman Department - -	574	600	428	457	563	418
,, Galleries of Sculpture - - - -	2,985	1,758	1,206	1,614	1,077	1,843
,, British and Mediæval Department - -	1,905	2,995	3,254	3,267	3,591	3,665
,, Coin and Medal Room - - - -	4,411	4,365	4,191	4,293	4,377	4,228
Total - - -	272,497	268,510	193,420	287,220	276,040	274,908

The British Museum, Bloomsbury (including the Departments of Printed Books and Maps, Manuscripts, Oriental Printed Books and Manuscripts, Prints and Drawings, Egyptian and Assyrian Antiquities, Greek and Roman Antiquities, British and Mediæval Antiquities and Ethnography, and Coins and Medals), is open to the public free daily (except on Good Friday and Christmas Day and days of Public Fast or Thanksgiving), as follows:—

On WEEKDAYS from 10 a.m. to 6 p.m.

After 4 p.m. in January, February, November, December, and after 5 p.m. in March, September, October, only certain of the galleries remain open, viz.:—

On MONDAYS, WEDNESDAYS, and FRIDAYS.	Exhibitions of Manuscripts, Printed Books, Prints and Drawings, Porcelain, Glass and Majolica; Prehistoric, British, Anglo-Saxon, Mediæval and Ethnographical Collections.
ON TUESDAYS, THURSDAYS, and SATURDAYS.	Egyptian, Assyrian, Greek and Roman Galleries; the Gold Ornament Room, the American Room and the Waddesdon Room.

On SUNDAY AFTERNOONS:—

From 2 to 4	p.m. in January, February, November, December.
,, 2 ,, 5	,, ,, October.
,, 2 ,, 5.30	,, ,, March, September.
,, 2 ,, 6	,, ,, April, May, June, July, August.

Persons applying for the purposes of research and reference are admitted to the Reading Room under certain regulations every weekday, except the days specified below, from 9 a.m. until 7 p.m. The Newspaper Room is open, under similar regulations, from 10 a.m. until 5 p.m.

The Reading Room, Newspaper Room, and Students' Rooms in the Library and Department of Manuscripts are closed on Sundays, Good Friday, Christmas Day, and the first four weekdays in March and September.

Other Students' Rooms are closed on Sundays, Good Friday, and Christmas Day, and occasionally for cleaning.

Students are admitted generally to the several Departments on weekdays, from 10 till 4 or 5 o'clock; and to the Sculpture Galleries from 9 o'clock till the hour of closing.

British Museum,
3 April, 1911.

Frederic G. Kenyon,
Director and Principal Librarian.

B.—Persons admitted to view the Collections in the British Museum (Natural History), Cromwell Road, in each Year from 1904 to 1910, inclusive.

	1904.		1905.		1906.		1907.		1908.		1909.		1910.	
	Week-days.	Sundays.	Week-days.	Sundays.	Week-days.	Sundays.	Week-days.	Sundays.	Week-days.	Sundays.	Week-days.	Sundays.	Week-days.	Sundays.
January	43,394	4,758	39,655	3,933	35,413	3,622	30,598	2,979	22,626	2,459	33,756	4,269	34,759	3,561
February	26,900	5,481	23,614	4,445	25,960	4,227	26,846	4,250	24,253	5,117	25,852	4,163	29,426	4,063
March	28,790	6,138	33,156	5,406	27,682	5,454	33,865	7,539	29,361	6,990	29,153	5,053	49,982	6,044
April	56,671	6,418	60,418	7,071	44,218	6,929	58,220	7,394	61,990	7,157	56,355	5,223	37,069	5,567
May	36,952	6,466	43,423	8,290	32,020	5,942	47,095	6,147	33,866	6,435	36,630	5,969	31,634	5,371
June	32,022	4,887	66,124	7,455	42,840	4,380	37,105	7,144	46,159	4,941	42,446	8,117	35,308	4,133
July	28,540	4,499	36,663	6,948	32,969	6,279	32,093	5,741	42,531	5,788	46,808	5,275	42,507	7,292
August	43,554	5,178	57,812	6,206	49,279	5,811	49,158	5,954	61,603	9,277	58,812	6,244	52,668	5,629
September	30,695	5,796	35,916	6,370	29,810	6,683	31,014	6,166	45,399	6,193	40,239	5,642	36,376	5,225
October	23,689	5,929	33,263	6,793	37,739	5,354	33,618	5,722	32,124	5,235	39,650	6,061	33,737	5,558
November	24,941	3,203	32,477	3,709	28,799	3,276	25,714	3,736	24,741	4,107	32,856	2,784	36,549	2,855
December	33,500	2,156	33,758	3,458	24,677	3,194	25,744	3,595	26,404	2,287	31,094	2,665	37,789	2,460
Total Number of Persons admitted to view the Natural History Collections (including students)	409,648	60,909	496,229	70,084	411,406	61,151	431,070	66,367	451,057	65,986	473,651	61,465	457,804	57,758
	470,557		566,313		472,557		497,437		517,043		535,116		515,562	

Number of Visits to Particular Departments for the purpose of Study.

	1904.	1905.	1906.	1907.	1908.	1909.	1910.
Zoology	11,824	11,811	10,813	11,043	10,220	11,461	12,443
Geology	4,854	4,968	4,171	5,544	5,803	5,057	4,996
Mineralogy	909	994	867	855	987	838	850
Botany	2,358	1,939	2,065	2,245	2,315	2,712	3,009
Total	19,945	19,712	17,916	19,687	19,325	20,068	21,298

The Exhibition Galleries of the British Museum (Natural History), Cromwell Road, South Kensington, including the Departments of Zoology, Geology and Palæontology, Mineralogy, and Botany, are open to the public, free, daily, except Good Friday and Christmas Day, and days of Public Fast or Thanksgiving.

The hours of Admission are as under:—

On WEEKDAYS, throughout the year from 10 a.m., in

January	to	4	p.m.
February 1st to 14th	,,	4.30	,,
February 15th to end	,,	5	,,
March	,,	5.30	,,
April to August	,,	6	,,
September	,,	5.30	,,
October	,,	5	,,
November and December	,,	4	,,

also, on MONDAYS and SATURDAYS only, from the beginning of May to the middle of July, to 8 p.m., and from the middle of July to the end of August, to 7 p.m.

On SUNDAYS, in

January	from	2	to	4	p.m.
February 1st to 14th	,,	2	,,	4.30	,,
February 15th to end	,,	2	,,	5	,,
March	,,	2	,,	5.30	,,
April	,,	2	,,	6	,,
May to August	,,	2.30	,,	7	,,
September	,,	2	,,	5.30	,,
October	,,	2	,,	5	,,
November and December	,,	2	,,	4	,,

Persons are admitted to study in these Departments every weekday from 10 till 4 o'clock.

British Museum (Natural History),
25 February, 1911.

L. Fletcher,
Director of the Natural History Departments.

VIII.—General Progress at the Museum, Bloomsbury.

The total number of visitors to the Museum in 1910 was 739,837, a considerable increase in comparison with the total in 1909 (708,836), though not quite equal to that of 1908 (743,413), which was the year of the Franco-British Exhibition. The total for weekdays was 670,104 (the highest figure since 1905), and for Sundays 69,733 (the highest on record with the exception of 1908).

The number of visits by readers to the Reading Room was 219,274, an increase of 1,300 on the previous year, and the third highest in the records of the Museum. The daily average was 726. In the Newspaper Room the number of readers was 19,200 (a decrease of nearly 2,000), and the daily average of volumes of newspapers consulted was 216. The visits of students to other Departments of the Museum amounted to 36,434, showing a decrease of about 500. Visits to the Sculpture Galleries showed a large increase, while visits to the Departments of Manuscripts and Oriental Printed Books and Manuscripts showed considerable decreases, and those to the Department of Prints and Drawings were identical with the figure for the previous year.

Work has been in progress throughout the year on the British Museum Extension Building. The main external structure of the building was almost completed, and plans for the internal furniture and fittings prepared.

Another section of the reconstruction of the roof with fire-resisting partitions was taken in hand; and the usual work of renovation and repair was carried out.

Special exhibitions were held in the course of the year of the prints and water-colour drawings bequeathed to the Museum by the late George Salting, Esq.; and of Chinese and Japanese paintings, a large part of which were furnished by the Wegener collection, purchased early in the year with the help of several generous friends of the Museum.

The number of separate objects incorporated in the collections of the several Departments during the year 1910 is as follows:—

Department of Printed Books:	
Books and Pamphlets	26,063
Serials and Parts of Volumes	68,811
Maps and Atlases	2,149
Music	12,036
Newspapers (single numbers)	245,605
Miscellaneous	3,712
Manuscripts and Seals	328
Oriental Printed Books and Manuscripts	2,545
Prints and Drawings	4,926
Egyptian and Assyrian Antiquities	617
Greek and Roman Antiquities	410
British and Mediæval Antiquities	6,032
Coins and Medals	1,548
Total	374,782

The principal additions to the collections are noticed below in the reports of the several Departments; but a few of the more important may be specially mentioned here.

In the Department of Printed Books the principal purchases have been in the category of Incunabula, in order that the Catalogue of Early Printed Books, now in course of preparation, may be as complete as possible. Fifty-nine books printed in the XVth century, and 85 English books printed before 1640, have been acquired during the year. Among the latter were 18 Year Books of the reign of Edward IV.; among the former, a copy of the valuable Zinna Psalter, printed at the expense of the emperors Frederick III. and Maximilian I. in 1495. Of later books may be mentioned the only work of John Milton which was not hitherto in the Library; and a complete set of the bulletins of the Revolutionary Tribunal at Paris for 1793 and 1794. The Department also received by donation a Catalogue of the Indian collection of Arms and Armour at Sandringham, presented by Her Majesty Queen Alexandra in pursuance of the wishes of His late Majesty King Edward VII.; vols. I–VI. of the Bibliotheca Lindesiana, presented by the Earl of Crawford, K.T.; and a complete set of the publications of the Kelmscott Press, presented by Mrs. William Morris.

The Department of Manuscripts acquired a considerable number of historical papers (chiefly from the sale of a further instalment of the Phillipps Library), notably the original MS. of Sir James Melville's Memoirs, 1559–1594; the Letter Book of the Commissioners for Scotland in London, 1645–1646; 61 letters of Lord Bolingbroke, 1740–1750; correspondence of Lord John Russell, 1819–1860; and letters of the Duke of Wellington to J. W. Croker, 1832–1852. The most important acquisition of this kind, however, was the original autograph Trafalgar Memorandum, written by Lord Nelson on the 9th of October 1805, to explain the tactics which he intended to adopt on meeting the allied fleets of France and Spain; this, having been bought for a large sum by Mr. B. M. Woollan, of Tunbridge Wells, in 1905, passed (in accordance with an agreement made by him with the Trustees) into the possession of the nation as a free gift on his death in December 1909. Another valuable gift was the original diary of George Romney, recording sittings for portraits, 1776–1795, which was presented by Mr. T. Humphry Ward.

The Department of Oriental Printed Books and Manuscripts received a valuable collection of Coptic papyri (including considerable portions of the Gospel of St. John) by gift from Mr. Martyn Kennard. The principal purchase was a very fine MS. of the Samaritan Pentateuch, with the Aramaic and Arabic versions in parallel columns, written about the year 1200.

The Department of Prints and Drawings was exceptionally fortunate in the generosity of benefactors during the year. The bequest of Mr. George Salting included works, many of

them of the highest importance, by Dürer, Holbein, Canale, Rembrandt and other Dutch masters, François Clouet and his school, Gainsborough, Turner, Constable, and De Wint. The Wegener collection of Chinese paintings, acquired largely by the subscriptions of friends, gave the Museum a series of admirable specimens of Eastern Art, which it would be hard to match out of China. Eleven highly finished drawings by D. G. Rossetti were presented by Mrs. Gillum, in pursuance of the will of her husband, the late Col. Gillum ; and the National Art-Collections Fund (among other benefactions) secured for the Museum six fine designs by Alfred Stevens. Under present conditions of prices of works of art, it is only through such liberality of private benefactors that the British Museum can hope to maintain its position in the first rank of existing collections. The most important purchase during the year (apart from the part-purchase of the Wegener Collection) was that of a large number of etchings by the late Sir F. Seymour Haden.

The Department of Egyptian and Assyrian Antiquities similarly owes its most important accession to private generosity. This was a very fine papyrus roll, 122 feet in length, containing the Book of the Dead in hieratic characters, written about 980 B.C., and illustrated with pen and ink drawings of great delicacy and spirit. This fine volume, which contains several new texts, and is of considerable interest for the history of Egyptian religion, was presented by Mrs. Greenfield. The more important purchases of Egyptian antiquities include a very large foundation-deposit brick of Rameses II. from Bubastis ; a fine granite table of offerings of unusual character; and an exceptionally good stone sarcophagus of the Ptolemaic period, inscribed with religious texts. Among the Assyrian antiquities acquired during the year are 73 well preserved letters and other documents of the first dynasty of Babylon (about 2000 B.C.) ; fragments of two cylinders of Sennacherib ; and several fine seals of the Sumerian period.

The Department of Greek and Roman Antiquities has made a considerable number of interesting acquisitions, the most notable of which is a fine sepulchral relief of the fourth century B.C., from Attica, the principal figure being in unusually good preservation. A fragment of a similar relief contains a very fine head of a girl. Among smaller objects are an ivory sistrum, or rattle, of unusual shape ; a tiny silver statuette of a lion ; an early Græco-Iberian statuette of a deer ; and several fine engraved mirror-cases. Several good examples of vases were also added to the collections. Dr. A. J. Evans presented some inscribed tablets and pottery from Crete ; and Prof. R. C. Bosanquet plaster casts of two important Minoan vases and of the remarkable inscribed disc found at Phaistos.

The Department of British and Mediæval Antiquities and Ethnography has benefited, as usual, by the generosity of

a large number of private donors, in some cases through the agency of the National Art-Collections Fund. Among the antiquities may be mentioned a number of objects of Gothic workmanship from the Crimea and the Balkan Peninsula; Chinese pottery; early maiolica from Orvieto; several articles obtained by the British and Chinese troops in Tibet; and a set of jade tablets from the Temple of Ancestors at Pekin. Among acquisitions more distinctly ethnographical are Japanese, Formosan, and Korean objects from the Japan-British Exhibition; a large collection made by the Torday expedition in Belgian Congo, and another, from East Africa, made by Mr. Scoresby Routledge; and a number of gold ornaments from Colombia. From the Christy Trustees have been received a large and very valuable ethnographical series, acquired by them from the London Missionary Society, and representing the collections of some of the earliest missionaries of the Society.

In the Department of Coins and Medals considerable additions have been made to the collection of Macedonian coins, with a view to a catalogue, now in course of preparation. In all, 1,548 coins and medals were acquired by the Department in the course of the year, of which 499 were received by gift. Sixty-five coins, some of great rarity, were derived from a hoard found in Hampshire, dating from the middle of the second century. Another interesting group consisted of coins struck during the revolt of Judaea in the reign of Hadrian. Among the English coins acquired were a Bristol halfpenny of Henry VI. and a quarter-angel of James I., both believed to be unique; among French coins, a series of provincial issues; and among Oriental coins, a very fine collection of the Gupta dynasty, of the 4th and 5th centuries.

Gifts of Museum publications, including reproductions of prints by Old Masters, and sets of electrotypes of British Historical Medals, have been made to Free Libraries, Museums, and Art Schools throughout the United Kingdom, and to institutions in various Colonies.

The following are the publications issued by the Departments at Bloomsbury during the year:—

Facsimiles of Egyptian Hieratic Papyri in the British Museum. With descriptions, translations, &c., by E. A. Wallis Budge, Litt.D. Folio, 1*l.* 10*s.*

Cuneiform Inscriptions of Western Asia. Vol. V. Plates I.–LXX. Lithographed reprint. Folio, 1*l.* 7*s.*

Cuneiform Texts from Babylonian Tablets, &c., in the British Museum. Parts XXVII.–XXIX. 50 plates each. Foolscap, 7*s.* 6*d.* each part.

The Sculptures of the Parthenon, with an Introduction and Commentary by A. H. Smith. With 85 photogravure plates,

10 collotype plates, and vii + 70 pages of text, with 144 text illustrations and diagrams. Folio portfolio, 5*l.* 15*s.*

Medallic Illustrations of the History of Great Britain and Ireland. Parts XII. and XIII. 10 plates each. Folio, 6*s.* each part.

Catalogue of Greek Coins in the British Museum : Phœnicia, by G. F. Hill. With map and autotype plates. 8vo., 1*l.* 15*s.*

Coins of the Roman Republic in the British Museum, by H. A. Grueber. In 3 volumes. With 123 autotype plates. 8vo., 7*l.* 10*s.*

List of Books forming the Reference Library in the Reading Room of the British Museum. 4th edition, revised and enlarged. Vol. I., Authors. Vol. II., Subjects. 8vo., 1*l.* 11*s.* 6*d.*

Catalogue of Romances in the British Museum. Vol. III. By J. A. Herbert. 8vo., 1*l.* 5*s.*

Reproductions from Illuminated Manuscripts. 2nd edition. Three series, each of 50 collotype plates. 4to. portfolio, 5*s.* each series.

Coptic Homilies in the Dialect of Upper Egypt. Edited, with translations, from the Papyrus Codex Or. 5001 in the British Museum, by E. A. Wallis Budge, Litt.D. With 5 plates and 7 illustrations in the text. 8vo., 12*s.*

Supplementary Catalogue of the Bengali Books in the British Museum, acquired during the years 1886–1910. 4to., 1*l.* 5*s.*

Catalogue of the Kannada, Badaga, and Kurg Books in the British Museum. 4to., 1*l.* 1*s.*

Catalogue of Early Italian Engravings in the British Museum, by A. M. Hind. Edited by Sir Sidney Colvin, D.Litt. 8vo., 1*l.* 11*s.* 6*d.*

Illustrations to the Catalogue of Early Italian Engravings. 8vo., 2*l.*

Catalogue of Engraved British Portraits in the British Museum, by F. M. O'Donoghue. Vol. II., D.–K. 8vo., 1*l.* 7*s.* 6*d.*

Reproductions of Prints. Third series. Part IV. (Specimens of Etching by Flemish Masters, 1520–1650.) 25 plates. 2*l.*

Guide to the Exhibition Galleries of the British Museum (Bloomsbury). 10th edition. With plans. 8vo., 2*d.*

Guide to the English Pottery and Porcelain in the Department of British and Mediæval Antiquities. 2nd edition. With 15 plates and 161 illustrations. 8vo., 1*s.*

Handbook to the Ethnographical Collections in the British Museum. With 15 plates, 275 illustrations, and 3 maps. 8vo., 2*s.*

Guide to an Exhibition of Chinese and Japanese Paintings (4th to 19th Century A.D.) in the Prints and Drawings Gallery. 8vo., 3*d*.

Guide to an Exhibition of Chinese and Japanese Paintings (4th to 19th Century A.D.) in the Prints and Drawings Gallery. 2nd edition, revised. 8vo., 3*d*.

British Museum,
3 April, 1911.

Frederic G. Kenyon,
Director and Principal Librarian.

IX.—PROGRESS made in the ARRANGEMENT AND DESCRIPTION OF THE COLLECTIONS, AND ACCOUNT OF OBJECTS ADDED TO THEM in the Year 1910 (Bloomsbury).

DEPARTMENT OF PRINTED BOOKS.

I. *Arrangement.*—The works added to the collection during the past year have, as far as possible, been placed on the shelves of the Library according to the system of classification adopted in the Museum.

The press-marks, indicating their respective localities, have been marked on the inside and affixed to the back of each volume.

The total number of these press-marks amounts to 71,542; in addition to which 153,151 press-marks have been altered, on books and in the catalogues, in consequence of changes and re-arrangements carried out in the Library; 35,846 labels have been affixed to books and volumes of newspapers, and 103,356 labels have been renewed.

The number of stamps impressed upon articles received is 421,750.

4,525 presses of books and newspapers have been dusted in the course of the year.

II. *Catalogues.—Cataloguing.*—52,172 titles have been written for the General Catalogue and for the Catalogues of Maps and Music.

Printing.—32,636 titles and index-slips for the General Catalogue, 2,022 titles for the Map Catalogue, and 14,797 for the Music Catalogue have been prepared for printing during the year; and 33,953 titles and index-slips for the General Catalogue, 4,561 titles for the Map Catalogue, and 14,797 for the Music Catalogue, have been printed.

Reprinting.—47 columns have been revised, rearranged, and reprinted during the year.

Incorporation.—General Catalogue.—33,244 title-slips and index-slips have been incorporated into each of three copies of this Catalogue. This incorporation has rendered it necessary, in order to maintain as far as possible the alphabetical arrangement, to remove and re-insert 43,698 title-slips and index-slips in each copy and to add to each copy 684 new leaves.

The system of fortnightly incorporation of accessions to the Library has been carried out with perfect regularity during the year.

Map Catalogue.—2,865 titles have been written for the Map Catalogue, and 3,164 title-slips have been incorporated

into each of three copies of it. This incorporation has rendered it necessary to remove and re-insert 7,478 title-slips in each copy and to add to each copy 154 new leaves.

Music Catalogue.—14,940 titles have been written for the Music Catalogue, and 13,667 title-slips have been incorporated into each of two copies of it. This incorporation has rendered it necessary to remove and re-insert 24,744 title-slips in each copy and to add to each copy 565 new leaves.

Shelf Catalogue.—For this Catalogue, in which the title-slips, mounted on cards, are arranged in order of press-marks, about 32,000 have been so mounted and about 80,000 have been incorporated in their proper order.

Catalogue of Books of Reference in the Reading Room.—This Catalogue, which is in two parts, Part I. containing an alphabetical list of books entered under the names of the authors, Part II., containing a subject-index, has been completed, and is now available for the use of readers.

Catalogue of Books printed during the XVth Century.—All the books for Part II. of this Catalogue have now been described, and about half of the part is now in type.

III. *Binding.*—The number of volumes and sets of pamphlets sent to be bound in the course of the year was 12,697, including 4,459 volumes of newspapers. In consequence of the frequent adoption of the plan of binding two or more volumes in one, the number of volumes returned was 11,893. In addition to this, 377 volumes have been repaired in the binders' shops.

Besides this, the following binding work has been done in the Library itself:—2,965 volumes have been repaired; 197 broadsides, &c., have been inserted in guard-books, and 5,000 volumes of reports, parts of periodicals, &c., have been bound in a light style of binding.

The following maps, charts, &c., have also been bound or mounted during the year:—9 atlases and 96 volumes of the 6-inch and 25-inch Ordnance Survey have been bound, and 50 Admiralty Charts have been mounted on linen; in addition, 219 general maps have been mounted on linen in 3,670 sheets, and 206 maps have been mounted on cards in 426 sheets. In addition to this, two atlases have been repaired.

36,179 numbers of Colonial Newspapers have been folded into 673 parcels, which have been tied up and labelled preparatory to being bound.

Four volumes of the Blue Copy, 13 volumes of the Red Copy, and 12 volumes of the Green Copy of the General Catalogue, have been broken up and rebound in 38 new volumes. Forty-four columns have been relaid, owing to the accumulation of titles under certain headings, as well as 167 columns of reprinted headings, in each of the three interleaved copies of the General Catalogue. In addition, one volume of the Blue

Copy, four volumes of the Red Copy, and four volumes of the Green Copy, comprising 1,059 columns and 7,990 accession-slips, have been entirely relaid. Seventeen volumes of the Music Catalogue have been broken up and rebound in 28 new volumes, and one volume of the Map Catalogue has been broken up and rebound in two volumes.

IV. *Reading Room Service.*—The number of volumes replaced in the General Library after use in the Reading Room was 758,125; in the King's Library, 26,400; in the Grenville Library, 1,959; in the Map Room, 4,764; in the presses in which books are kept from day to day for the use of readers, 678,411; and in the Oriental Department, 2,619; making a total amount of 1,472,278 volumes supplied to readers during the year, exclusive of those to which readers have personal access on the shelves of the Reading Room.

The number of readers during the year was 219,274, giving an average of 726 daily, the room having been open on 302 days; with an average of nearly seven volumes daily for each reader.

Newspaper Room.—The number of readers during the year was 19,200, giving a daily average of over 63, the room having been open on 302 days. The number of volumes replaced after use was 65,231, giving a daily average of 216 and of over three volumes for each reader, not reckoning volumes, chiefly Parliamentary Papers, taken from the shelves of the Newspaper Room by the readers themselves. In addition to the above, 1,799 country newspapers were brought up to the Library from the Repository at Hendon for the use of readers.

Map Room.—443 visitors were admitted to the Map Room for the purpose of special geographical research.

Photography.—There were 476 applications for leave to photograph from books in the Library, and 1,326 volumes were supplied to the applicants for this purpose.

V. *Accessions.—General Library.*—26,063 complete books and pamphlets have been added to the General Library in the course of the year. Of these, 5,935 were presented; 14,793 received by Copyright; 438 by Colonial Copyright; 899 by International Exchange; and 3,998 acquired by purchase.

68,811 parts or volumes of magazines and other serial publications and of works in progress have also been added to the General Library. Of these, 3,370 were presented; 43,471 received by Copyright; 555 by Colonial Copyright; 681 by International Exchange; and 20,734 acquired by purchase.

Maps.—72 atlases, 90 parts of atlases, and 1,987 maps in 7,112 sheets have been added to the collection during the year. Of these, seven atlases, 41 parts of atlases, and 563 maps

were presented; 30 atlases and 1,296 maps received by Copyright; 25 atlases and 30 maps by Colonial Copyright; and ten atlases, 49 parts of atlases, and 98 maps acquired by purchase.

Music.—12,036 musical publications have been added to the collection during the year. Of these, 13 pieces were presented; 9,397 books and pieces, and 1,724 parts, received by Copyright; 706 pieces by Colonial Copyright; and 56 books and 140 parts acquired by purchase.

Newspapers.—The number of newspapers published in the United Kingdom, received under the provisions of the Copyright Act, during the year, was 3,453, comprising 245,605 single numbers. Of these newspapers, 1,239 were published in London and its suburbs; 1,675 in other parts of England and Wales and in the Channel Islands; 296 in Scotland; and 243 in Ireland. Five sets, comprising 983 single numbers, were received by Colonial Copyright; 242 sets, comprising 38,180 single numbers of Colonial and foreign newspapers, have been presented; and 81 sets, comprising 18 volumes and 14,340 single numbers of current Colonial and foreign newspapers, have been purchased.

Miscellaneous.—3,712 articles not included in the foregoing paragraphs have been received in the Department. These consist of Parliamentary papers, single sheets, and other miscellaneous items.

The total number of articles enumerated above, as having been received in the Department during the year, exclusive of newspapers, is 112,771.

Acquisitions of Special Interest.—Eighty-five English books printed before 1640, and fifty-nine Incunabula (books printed before the close of the year 1500), have been added to the Library during the year 1910.

Among the most interesting of the English books are the following:—

Colet, John: "A Monition concerning the ordering of a Christian Man's Life." Printed by Robert Copland for John Byddel, London, 1534.

More, Sir Thomas: "The answere to the fyrste parte of the poysened booke whych a nameless heretyke hath named the Souper of the Lorde." W. Rastall, London, 1534.

"The Offices of Sheriffs, Bailiffs of Liberties, &c." Printed about the year 1535 by Robert Redman at the Sign of the George, the house of Richard Pynson, who was succeeded in his business by Redman.

Eighteen Year Books containing Law Reports of the reign of Edward IV. Printed by R. Tottel between the years 1558 and 1572.

This acquisition raises the total number of issues and editions of printed Year Books in the Library to two hundred and thirty-one.

"Certaine Sermons appoynted by the Queenes Maiesty to be declared and read." R. Jugge and J. Cawood, London, 1563.

The first volume of the Homilies: the second volume was first issued in the same year.

Fulwell, Ulpian: "First part of the eight liberall Sciences, the art of Flattery." W. Hoskins, London, 1576.

Lodge, Thomas: "An Alarum against Usurers. Heirunto are annexed the Historie of Forbonius, &c." T. Este for S. Clarke, London, 1584. An imperfect copy. Two complete copies only are known to exist.

Boccaccio, Giovanni: "Amorous Fiammetta." Printed by I. C. for Thomas Gubbin and Thomas Newman, London, 1587.

Rowlands, Samuel: "A Payre of Spy Knaves," 1613. The present imperfect book is the only copy known.

Rowlands, Samuel: "Well met Gossip; or, 'Tis merrie when Gossips meet." I. W. for John Deane, London, 1619. The first edition was published in 1602. The earliest edition hitherto in the Library is that of the year 1656.

Decker, Thomas: "Londons Tempe, or the Feild of Happines," 1624. Complimentary verses on the inauguration of a Lord Mayor of London. An imperfect copy; the only complete copy known being that in the Duke of Devonshire's Library.

"Brief Notes upon a late Sermon titl'd The Fear of God and the King; preached by Matthew Griffith. By I. M." London, 1660. The only prose work of John Milton of which there has hitherto been no separate edition in the Library.

"Jesus, Maria, Joseph; or, the devout Pilgrim of the ever Blessed Virgin Mary." Amsterdam, 1663. Bound with the arms of Queen Catherine of Braganza.

"Bible." 2 vol. Oxford, 1701. From the Chapel Royal, Windsor Castle. In a sumptuous binding, with Queen Anne's cipher and arms in their earlier form. This stamp is one of the few not already represented in the British Museum collection of Royal armorial bindings.

Among the foreign Incunabula and later works the following are of special interest:—

Franciscus Philelphus: "Epistolæ Familiares." Printed by Vindelinus de Spira, Venice, 1472 or 1473.

Johannes de Gandavo: "Quæstiones super tres libros de Anima." Printed by Franz Renner and Nicolaus of Frankfort, Venice, 1473.

Jerome, Saint: "Epistolæ." 2 tom. The first volume was printed at Rome in 1476 by Arnold Pannartz, who with Conrad Sweynheym introduced printing into Italy, while the second

volume was printed 1479 after the death of Pannartz by his successor Georg Lauer in the same city.

Lucan: "Pharsalia." Printed by P. Lavagna, the second printer at Milan, in 1477.

Pantaleone de Confienza: "Summa Lacticiniorum." Printed by J. Fabri, Turin, 1477. The author held the post of court physician to the Duke of Savoy. The book contains an account of the principal kinds of cheese used in the fifteenth century. Chapter XII. of Part II. contains a description of the English cheeses of the period.

Thomas Aquinas: "Summa Theologiæ. Prima pars secundæ partis." Printed by Franciscus de Hailbrun and Petrus de Bartua, Venice, 1478. A very fine copy in an early binding.

Frezzi, Frederico: "El Quatriregno del decursu della vita humana." Printed by Stephan Arndes, Perugia, 1481. Probably the first book printed by Arndes at Perugia.

"Agenda" of the Diocese of Würzburg. Printed by Georg Reyser, Würzburg, 1482. In a fine contemporary stamped leather binding.

"Missale Moguntinum." Printed by Georg Reyser, Würzburg, 1482.

Bartolus de Saxoferrato: "Super Digestum Novum." Printed by Petrus Maufer et Socii, Venice, 1482.

Perottus, Nicolaus: "Rudimenta Grammatices." Printed by Henricus de Urso, Vicenza, 1482.

"Statuta Synodalia Eystettensia." Printed by Michael Reyser, Eichstätt, 1484. The first dated book printed at Eichstätt.

Puteo, Paris de: "Tractatus Syndicatus." By the printers calling themselves "Germani fidelissimi," Naples, 1485.

Antonio de Lebrixa: "De corruptis ignorantia Hispanorum quarundam litterarum vocibus." Printed at the first press established at Salamanca, 1486.

Gaspar Veronensis: "Grammatica." Printed by Christoph Valdarfer, Milan, about 1486, in a type hitherto unrepresented in the Library.

"Ordo Diuinus," a single sheet showing the various feast and fast days to be observed in the diocese of Speier. Printed by the brothers J. & C. Hist, Speier, 1489.

Alphonso X., King of Castile: "Leyes de las siete partidas." Printed by Meinardus Ungut and Stanislaus Polonus, Seville, 25 October, 1491. The first printed edition of this book; the second (already in the Library) appeared two months later from a rival press.

The Moral Distichs of Dionysius Cato. The text in Latin, with glosses and translations in Italian. Printed by Andreas Freitag, Rome. Completed, according to the colophon, on the 8th January of an unspecified year, probably 1493 or 1494.

"Novum beatæ Mariæ virginis Psalterium," edited by Hermann Nitzschewitz. Printed at the press of the Cistercian Monastery of Zinna, about 1495. This book, known as the "Zinna Psalter," was printed at the expense of the Emperors Frederick III. and Maximilian I., and is a fine example of German book decoration of the fifteenth century.

Juan de Mena: "Coronacion, con la glosa." Printed anonymously at Salamanca, 1499.

"Ghetÿden van onser lieven Vrowen." Printed by Thielmann Kerver, Paris, February, 1500. On vellum. A rare edition of the House of the Blessed Virgin, printed in Paris for use in the Netherlands.

"Missale Speciale," an abridged edition of the Missal for use in the Diocese of Augsburg. Printed by Lucantonio Giunta, Venice, at the expense of Christoph Thum of Augsburg. The date may be read either as 5 August, 1504, or 2 August, 1500, the later date being the more probable.

"Horæ secundum usum Romanum." Printed by Thielmann Kerver, Paris, 1520. A fine specimen of the later issues of Books of Hours by Kerver. Printed in red and black, with numerous woodcuts.

A complete set of 313 numbers of the "Bulletins du Tribunal criminel révolutionnaire établi au Palais, à Paris, par la loi du 10 mars, 1793, pour juger sans appel les conspirateurs." Paris, 1793–1794.

Maps.—Among the more important additions to the Collection of Maps are:—

"Nova hæc Tabula Galliæ. Ludovico XIII. Christianissimo Regi Franciæ et Navarræ humillime dedicatur à Nicolao Iohanni de Visscher." [Amsterdam], 1633.

"Atlas Minor, das ist: eine kurtze jedoch gründliche Beschreibung der gantzen Weldt, etc." Amstelodami, ex officina Ioannis Ianssonii, 1651.

"Plan de la Ville, Cité, Université et Fauxbourgs de Paris . . . . dressé sur les lieux, et sur les mémoires de M^r. Jouvin de Rochefort." A Paris chez N. de Fer, 1694.

"Plan of the Battle at Preston 21^st Septem^r 1745. By an Officer of the Army who was present." Christopher Seton, Charing Cross, Decr. 21 1745.

Music.—The following are among the most interesting additions to the Library of Music during the present year:—

"Delitiæ Musicæ, sive Cantiones e quamplurimis nostri aevi musicorum libris selectæ, ad testudinis usum accomodatæ opera Joachimi van den Hove." Salomon de Roy, Utrecht, 1612. A

collection of arrangements and compositions for the lute. The book contains specimens of the work of two English musicians, Anthony Holborne and John Dowland. Four other copies only are known.

Philips, Peter: "Cantiones Sacræ." 8 pts. Antwerp, 1613.

A volume containing four collections of Motets printed at Venice between the years 1645 and 1648.

Donations.—Many valuable books have been presented to the Library during the past year. Among these are the following:—

"Arms and Armour at Sandringham. The Indian collection presented by the Princes of India to His Majesty King Edward VII. when Prince of Wales, 1875–1876." London, 1910. *Presented by order of Her Majesty Queen Alexandra.*

"Catalogue of paintings and drawings in Buckingham Palace." London, 1909. *Presented by the Lord Chamberlain.*

A complete set of the books printed by the late William Morris at the Kelmscott Press, consisting of fifty-four works in sixty-eight volumes. *Presented by Mrs. William Morris.*

Proofs of a lecture of George Meredith "On the Idea of Comedy and of the uses of the Comic Spirit," delivered at the London Institution, 1st February, 1877. With MS. notes, additions and corrections by the author. *Presented by Miss J. L. Benecke.*

"Bibliotheca Lindesiana. Vols. I.–IV. Catalogue of the printed books preserved at Haigh Hall, Wigan." 4 vol. Aberdeen University Press, 1910, and

"Bibliotheca Lindesiana. Vols. V., VI. A Bibliography of Royal Proclamations of the Tudor and Stuart Sovereigns, 1485–1714." With an historical essay on their origin and use by R. Steele. 2 vol. Clarendon Press, Oxford, 1910. *Presented by the Earl of Crawford, K.T.*

"Facsimile of the Washington Manuscript of Deuteronomy and Joshua in the Freer Collection." With an introduction by H. A. Sanders. University of Michigan Press, Ann Arbor, 1910. *Presented through the Library of the University of Michigan by Mr C. L. Freer.*

"Il Codice di Leonardo da Vinci della Biblioteca di Lord Leicester pubblicato sotto gli auspici del R. Instituto Lombardo di Scienze e Lettere da Gerolamo Calvi." Milan, 1909. *Presented by Mr. G. Calvi.*

"Photographs of Palace Buildings of Peking, compiled by the Imperial Museum of Tokyo. Collotyped from the negatives by K. Ogawa. With explanatory notes in Japanese, English and Chinese." Tokyo, 1906, and

"Decorations of Palace Buildings of Peking. With eighty plates." Tokyo, 1906. *Presented by Mr. Isshiu Ogawa.*

"The Kelekian Collection of Persian and analogous Potteries." Paris, 1910. *Presented by Dekran Khan Kelekian.*

"Tapisseries de l'Asie Centrale faisant partie de la collection réunie par A. Bogolukow." Coloured plates with descriptive letterpress in French and Russian. St. Petersburg, 1908. *Presented by the Library of the Section of Ethnography of the Russian Museum of the Emperor Alexander III., St. Petersburg.*

G. K. Fortescue.

Department of Manuscripts.

1. *Catalogue of Additions.*—The descriptions of MSS. acquired in 1909 have been printed and have been incorporated in the Class Catalogue kept in the Students' Room.

All the MSS. acquired in 1910, viz. Additional 37952–38091 and Egerton 2885-2889, have been described and indexed. The descriptions have been revised and down to 37976 are already printed.

2. *Catalogue of Greek Papyri.*—Vol. IV., which includes an Appendix of Coptic Papyri, has been completed and bound and is ready for publication.

3. *Catalogue of the Royal MSS.*—Descriptions as far as 17 C. XVI have been sent to press, and sheets X–2Z of Vol. I. (end) and B–2 E of Vol. II. are in print.

4. *Catalogue of Romances.*— Vol. III. has been completed and published. Materials have been selected, and four MSS. have been described, for Vol. IV.

5. *Catalogue of early Additional and Egerton MSS.*— Add. 4201–4390 have been described and indexed.

6. *Catalogue of Irish MSS.* — The continuation of this Catalogue has been taken in hand and fourteen MSS. have been described.

7. *Catalogue of Charters.*—Additional Charters 54404–54819, acquired in 1908, and 54820–55181, 55194–55419, acquired in 1909, have been described and (excepting 54701–54812, 55174–55181) indexed.

The printing of Vol. II. of the General Index of Charters has begun. Sheets B–O (pp. 1–208) extending to the end of letter D have been revised for press and slips to the end of letter E are in type.

8. *Catalogue of Seals.* — The seals attached to Add. Charters 46866–55425 (acquired in 1902–1909) have been indexed.

9. *Binding.*—One hundred and forty-nine Additional MSS. and seven Egerton MSS. newly acquired, and one hundred and sixty-six MSS. of the old collections, have been bound, repaired, or lettered, together with ninety-five papyri and one hundred and twenty-seven Books of Reference, volumes of Facsimiles, and Catalogues.

10. *Verification.*—The entire collection of MSS. has been verified by comparison with the Shelf-Lists, and the drawers of Seals have been checked with the Drawer-Lists.

11. *Reproductions.* — A second edition of the three Series of Reproductions from Illuminated MSS., which were issued

907–8, has been published. Collotype plates have been taken for a volume of reproductions from Royal MS. 2 B. vii (Queen Mary's Psalter).

12. *Stamping, folioing, and placing.*—Two hundred and eighteen Additional MSS., seven Egerton MSS., and one hundred and eighty-four Books of Reference have been stamped, and one hundred and thirty-one MSS. of the old collections have been re-stamped, with a total number of 15,188 impressions. One hundred and seventeen numbers were impressed on separate documents.

One hundred and seven-seven MSS. have been folio'd, with a total of 38,232 folios.

One hundred and thirty-nine newly-acquired MSS. have been placed, and fifty-one belonging to the old collections have been re-placed. All have been press-marked, and entered in Hand- and Shelf-Lists. One hundred and four Charters and Rolls have been placed and entered in the Inventories. Numbers have been written on 1153 Charters and Rolls. Sixty-three Seals and Casts have been provided with boxes, placed, and entered in the Inventory. The leaden bullæ have been measured for boxes, and a large number of seals of the old collections have been fitted with boxes and temporarily placed.

New Shelf-Lists have been made for MSS. in the South Room and for the Facsimiles. The list of Exhibited MSS. has been re-typed.

13. *Books of Reference.* — One hundred and eighty-eight volumes and parts have been received, catalogued, and placed.

Nineteen volumes and parts of Facsimiles have been added to the series now deposited in the Department and available for the use of Readers.

14. *Consultation of MSS.*—31,440 MSS. and 2767 Charters and Seals have been consulted in the Students' Room, and eighty-one MSS. in the Reading Room. The number of Students was 11,256.

Magna Charta was exhibited to 14,862 visitors.

15. *MSS. photographed.*—Seven hundred and seventy-two MSS. (including Papyri, Charters and Seals) were allowed to be photographed, with a total of 4,931 photographs taken.

16. *Exhibitions.* — A selection of medical MSS. was on exhibition in the Department (25 July–6 Aug.) for the British Medical Congress; and similar special exhibitions were arranged for (*a*) Westminster Scholars (12 March) and (*b*) German Students (27 Sept.–5 Oct.).

17. *Acquisitions.*—The number of Manuscripts and Documents, etc., acquired during the year has been:—

Additional MSS.	140
Egerton MSS.	5
Charters and Rolls	118
Detached Seals and Casts	65

The most interesting acquisition during 1910 is the autograph memorandum of Lord Nelson, 9 Oct. 1805, explaining for the instruction of his captains his plan for attacking the French fleet, as acted upon at the Battle of Trafalgar on 21 Oct. This was sold by auction in 1905 for a very large sum and was shortly after purchased by the late Mr. Benjamin Minors Woollan, who was patriotically anxious that it should not leave the country and provided that on his death, which happened on 5 Dec. 1909, it should come to the British Museum. It is now exhibited in the Manuscript Saloon in a glazed frame made of oak from the "Victory" presented by the Lords of the Admiralty. Another donation of considerable interest was received from Mr. Roland Stuart, viz. a volume of fifty-five original letters of "George Eliot," the novelist, addressed to his mother Mrs. Elma Stuart, 1872–1880, together with others from George Henry Lewes, 1872–1878.

Among the MSS. purchased during the year at public sales the majority came from the Blathwayt and Polwarth collections and from the great Phillipps collection, a further portion of which was sold on 6–9 June. They include most of the state-papers and diplomatic correspondence and of the other MSS., except donations, in the list which follows :—

Lives of saints, in Latin, including an unidentified Primianus and others of rare occurrence : a large folio volume, written in South Italian minuscules of Beneventan type, late 11th or early 12th cent.

Two treatises on music, in Latin, anonymous and apparently otherwise unknown ; 12th cent. With curious coloured diagrams and ornamental initials.

Revelations of St. Bridget of Sweden (d. at Rome, 1372), translated from Latin into Italian ; *circ.* 1400.

Sermones dominicales of Jacobus de Voragine ; written at Würm in Baden, 1421. From the monastery of St. Barbara, Cologne.

Breviary, in Latin, of Cologne use; 1436. With a fine contemporary stamped leather binding.

Speculum Sapientiae, a 13th cent. collection of fables in Latin, usually attributed in MSS. to St. Cyril ; 15th cent. With initials and borders of Dutch style.

Sermons of Caesarius of Heisterbach, in Latin, including a large number of illustrative tales and allusions to contemporary history ; 15th cent. Bound in stamped pigskin.

Homilies on the Sunday Gospels, etc., in English octosyllabic verse, with illustrative tales ; middle of the 15th cent.

The collection of Latin Aesopic fables known as the Anonymus Neveleti, translated into a northern dialect of Italian ; 1449.

Rules for the conduct of a steward, marshal, usher and other officers of a great household, in English ; late 15th cent.

Life of St. Hugh, Bishop of Lincoln (1186–1200), by the monk Adam, his chaplain, in Latin, known as the Magna Vita S. Hugonis; 1511. In a stamped leather Cologne binding.

Quire from a Missal of Toledo use; with finely illuminated borders and initials by Spanish artists, and the arms of Alfonso de Acuña Carillo, Archbishop of Toledo 1446–1482.

Two fine minatures cut from Italian choir-books, of Sienese and Milanese style respectively; 15th cent. *Transferred from the Dept. of Prints and Drawings* (*George Salting bequest*).

Accompt of R. de Tong, treasurer of the household of Eleanor, sister of Edward III., of her expenses on her journey to Nijmegen to be married to Reginald, Count of Guelders; Apr.–June, 1332.

Covenant by Edward III. to fulfil an accord with Louis, Count of Flanders, for postponing till 6 May the marriage of his son Edmund, Earl of Cambridge, with Margaret, Duchess of Burgundy, the Count's daughter, etc.; 8 Jan., 1364[5]. With the King's Privy Seal.

Covenant of Henry V. with John, Duke of Burgundy, not to make any accord to his prejudice with the King of France during the truce; 16 July, 1416. With the King's Privy Seal.

Miscellaneous official papers, letters, warrants, etc.; 1446, 1561–1718.

The original MS. of Sir James Melville's historical memoirs, 1559–1594.

Pay-book for various work done in the Star Chamber and Westminster Hall; 1564.

Proceedings at a court of captains and other officers serving on Sir Francis Drake's last expedition to the W. Indies, held at Porto Bello, 6 Feb. 1596, after Drake's death, to decide on their future action. Signed by Sir T. Baskerville and twenty-two others.

Letter-book of the Commissioners for Scotland in London; 15 Aug. 1645–27 Oct. 1646.

Two holograph letters of Charles II. when in exile, on his "straights and necessityes," etc.; 1652, 1654.

Correspondence of Sir R. Southwell, Secretary to the Privy Council, Envoy to Lisbon and Berlin, and Chief Secretary for Ireland; 1659–1697.

Accompts of the four Tellers of the Exchequer; 1662–1670.

Newsletters from Jean Donnelly at Brussels to W. Blathwayt, as secretary to Sir W. Temple, Ambassador at the Hague; 1669–1671.

Diplomatic papers relating to the conference at Frankfurt between the Empire and France; 1680–1682.

Letters of Philip Warwick, Envoy to Sweden, to Lord Conway and W. Blathwayt, Secretary and Under-Secretary of State; 1680–1683.

Letters of Sir Peter Wyche, Resident at Hamburg, etc., to the same; Feb. 1681–Jan. 1682.

Letters of William Carr, Consul at Amsterdam, to the same; Feb. 1681–Feb. 1682.

Letters of Thomas Plott, Agent at the Hague, to the same; Feb. 1681–Feb. 1682.

Letters of Charles, Earl of Middleton, Envoy at Vienna, to Lord Conway and Sir L. Jenkins, Secretaries of State, Feb.–July, 1681; and of Lord Conway to W. Blathwayt, Mar.–May, 1683.

Letters of Edmund Poley, Envoy at Berlin, Frankfurt, Ratisbon, etc., to Lord Conway and W. Blathwayt; 1681–1683. Two volumes.

Letters of Bevil Skelton, Envoy to the Hanse Towns, to the same; 1681–1685. Two volumes.

Fourteen holograph letters of Sophia, Electress of Hanover, the first to Sir W. D. Colt, Resident at Hanover, and the rest to Mary, Lady Colt; 1681, 1693–1714.

Holograph letters (3) of the Electress Sophia and the Electoral Prince George Louis, afterwards George I., to Margaret Hughes, mistress of Prince Rupert; 1682.

Letters of T. Chudleigh, Envoy at the Hague to Lord Conway and W. Blathwayt; Feb. 1682–Mar. 1683,

Letters (20) of Charles and Peregrine Bertie to their half-brother the Earl of Abingdon and his chaplain, relating to the Duke of Monmouth's rebellion; 17 June–15 July, 1685.

Correspondence and papers of T. Coxe, Envoy to the Swiss cantons to negotiate a treaty for the levy of troops; 1689–1692.

Letters of the 2nd Duke of Schomberg, commanding in Savoy, to the Earl of Nottingham, Secretary of State, and W. Blathwayt, 1692–1693; and of the 3rd Duke, in Flanders, to the King and W. Blathwayt, 1692–1703. With an autograph military memorandum by William III.

Register of correspondence of W. Blathwayt, as Secretary in attendance on the King in the Netherlands, with the Earl of Nottingham, Secretary of State; Mar.–Nov. 1692.

Register of letters of W. Blathwayt, in the same capacity, to Secretaries of State and others; 1693–1701.

Register of letters of Alexander, Lord Polwarth, as Lord Lieutenant of Berwickshire, relating to the Jacobite rebellion and more especially to the raising of the local militia; Sept.–Dec. 1715.

"The History of the Sufferings of the Church of Scotland," by Robert Wodrow, bk. iii, ch. 1–5: apparently a contemporary

copy of an early draft, differing considerably from the text as printed in 1721–2.

Letters of Sarah, Duchess of Marlborough, chiefly to Sir T. Pengelly, Chief Baron of the Exchequer, relating to her will, law-suits concerning Blenheim, etc.; 1720–1735.

Letters (12) of Lord Carteret, as Lord Lieutenant of Ireland, to E. Southwell, Secretary of State; 1725–1730.

Sixty-one letters of Henry St. John, Viscount Bolingbroke, to Hugh, Earl of Marchmont, on political and other subjects; 1740–1750.

Correspondence of G. Bubb Dodington with H. Fox and Sir Horace Mann; 1754–1759.

Correspondence of Lord John Russell, including letters of William IV., Lords Grey, Melbourne, Brougham, Aberdeen and Macaulay, Richard Cobden and others, together with letters from him to T. Moore; 1819–1860.

Letters of Arthur, 1st Duke of Wellington, to J. W. Croker, on political and other subjects; 1832–1852. With autograph memoranda of the Duke on the Catholic Question, the Corporation Commission, and Thiers' account of the battles of Roliça and Vimeiro.

Minute-book of "The Society for the Diffusion of Political Knowledge" from its foundation by Lord Brougham in June, 1834, to its dissolution 15 Aug. 1836. *Presented by Lord Avebury.*

Transcripts of French state letters and papers, 16th–17th centt. Eight volumes, with the arms of President Gabriel Bernard de Rieux on the covers.

History of the revolution in the island of San Domingo, 1799–1803, by M. Périés, Treasurer of the French Government there, 1799–1801.

Autograph summary by Napoleon Bonaparte of ch. xvii of the Campagne d'Italie; 1816. Sent by Comte de las Cases to "M. Louzada" in 1827. *Bequeathed by Emanuel, Duque de Losada y Losada.*

Petition, numerously signed, of the Catholics of Brussels to William, Prince of Orange, to be allowed the free exercise of their religion, 11 Aug. 1582; with letters and papers, official and private, relating to the Netherlands, 1507–1610.

Grant by Gian Galeazzo Sforza-Visconti, Duke of Milan, to Gian Angelo dei Talenti of certain dues from Rosata, 1481. Signed by the Duke and Ludovico il Moro his uncle; with joint seal of the Duke and his mother Bona of Savoy, regent.

Vita di Chiappino Vitelli, Marchese di Petriolo, ambassador to England in 1569, etc., by Lorenzo Borghese; 17th cent.

Diary of the Rev. M. D. Babington at Messina during the abortive insurrection against the Neapolitan Government;

Jan.–Sept. 1848. *Presented by Mrs. H. Wright (formerly Mrs. C. Babington).*

Original dispatches from Alfonso VI. of Portugal and his ministers to Francisco de Mello, Portuguese ambassador to England; 1662–1666.

Volume of legal tracts and official establishment-lists of various dates; 14th-17th centt.

Index to the repertories of the "Originalia" of the Court of Exchequer, 1509–1577, by the Rev. Edward Cookson. *Presented by the compiler.*

Papers of Sir Edward Walker, Garter King of arms, relating to the Order of the Garter; 1523–1677.

Collection of medical recipes; 17th and 18th centt. *Presented by J. Macnamara, Esq.*

Autograph eclogues, elegies and other poems by Sir Robert Howard, the dramatist (d. 1698).

Diploma of the University of Oxford conferring the degree of Master of Arts on Samuel Johnson; 1755. With seal.

Vocabulary of the English dialect of Romany, in the autograph of Charles Godfrey Leland (d. 1903). Two volumes. *Presented by Messrs. Whittaker and Co., publishers.*

Correspondence of John Martin relative to his *Catalogue of Books privately printed* (1834); 1828–1855. *Presented by J. W. Martin, Esq.*

Letters of Karl Marx and Friedrich Engels to Nikolai F. Daniel'son, of St. Petersburg, on economic and social questions; 1868–1895. *Presented by N. F. Daniel'son.*

Two letters of F. Mendelssohn-Bartholdy to W. Bartholomew, relating to his "Elijah"; 1846. *Presented by Mrs. L. Jessie Edwards.*

Correspondence, etc., of W. R. O'Byrne relative to his *Naval Biographical Dictionary* (1849); 1843–1849.

Letters of Prof. Richard Owen and others to Dr. W. Buckland, chiefly on the discovery in New Zealand of bones of *Dinornis Maximus;* 1835–1845.

Diaries of George Romney, the portrait-painter, recording about nine thousand sittings, 1776–1795; with rough lists of pictures, etc., 1776–1789. *Presented by T. Humphry Ward, Esq.*

Original MS. of a portion of John Ruskin's *Laws of Fésole,* a treatise on drawing and painting, published in 1879.

Letters of Joseph Strutt, engraver, etc., and his family; 1771–1780. *Presented by William Strutt, Esq.*

History of the family of Melbourne or Milbourne, by Thomas Milbourn. *Presented by the compiler.*

Survey of Toddington manor, co. Bedford, by Ralph Agas, 1581: an elaborate and valuable plan in sixteen sheets, illustrating the communal tenure of land in strips.

Court-book of the manor of Markeyate *al.* Market Street, cos. Bedf. and Hertf.; 1591–1662.

Grant by Henry VIII. to John Cary of the site, church and possessions of the dissolved Priory of Thremhall, co. Essex; 1536. With an Inspeximus, under the Great Seal, 1595, of depositions in a suit as to a right of way in Thremhall.

Plans of ancient earthworks in Hampshire and the Isle of Wight, surveyed and drawn to scale by E. A. Downman, 1876–1908.

Similar plans of ancient earthworks in Kent, Middlesex and Surrey, and in Northamptonshire, Norfolk and Suffolk, by the same, 1892–1910. Two volumes.

Rubbings of indents of despoiled monumental brasses in Canterbury and Rochester cathedrals. *Presented by T. E. Sedgwick, Esq.*

Book of accompts of the Guild of St. Mary in St. Botolph's church, Boston, co. Linc.; 1514–1525.

Collection of London customs, etc., relating especially to fishmongers; *circ.* 1395.

Charters (27) relating chiefly to lands in London and Essex; *temp.* Edw. I.–1602. *Presented in part* (9) *by J. L. Glasscock, Esq.*

Collection of arms in colours, chiefly of families of co. Somerset; early 18th cent.

Rubbings of inscriptions on church-bells in co. Warwick. *Presented by Henry B. Walters, Esq.*

Portions of a chartulary or chartularies of Malmesbury Abbey, co. Wilts, in Latin; late 13th cent.

Charters (13) relating to lands in cos. Worcester, Stafford, etc., 1275–1305; including a grant (with seal of arms) by Edmund, Earl of Lancaster, son of Henry III., of a fishery at Uttoxeter, 1283.

Charters (34) chiefly relating to lands in Seamer and elsewhere, co. York; 1343–1632. *Presented by the Duke of Leeds.*

Pedigrees and arms of Yorkshire families to 1613, in the hand of Sir W. Dugdale, Norroy.

Pedigrees of Irish families, in the hand of Sir W. Betham, Ulster, some brought down to 1852.

Arms of the archbishops and bishops of France to 1900, collected by G. A. Bouvier, 1887–1900.

Register of the Contrada or quarter of S. Romano at Ferrara, 1317–1525 recording transactions of the syndics with respect to leases of lands and houses, law-suits, etc.

Census of Rome, *circ.* 1517–1527; divided into the 13 "regioni," the names of all householders being given, with the number of "bocche" in each house, those of the Pope's household amounting to 700.

"L'Olimpia vendicata," opera by Alessandro Scarlatti, in score; 17th–18th centt.

Cantatas by various Italian composers; 1706.

"Admeto": opera by Handel, 1726, in the hand of his amanuensis John Christopher Smith.

Collection of MS. music, including autographs of J. S. Bach, Beethoven and others, and of letters, etc., of musicians, artists and others; 18th–19th centt. Five volumes. *Presented by Mrs. Clara Morten in accordance with the wishes of her late husband Alfred Morten, Esq.*

Symphony, in full score, by George Onslow (d. 1853).

"O salutaris hostia," for solo, chorus and orchestra, in score, in the autograph of Charles Gounod; 1856.

Original scores of "Nitocris," an opera, "Joash," a sacred drama, and other works, by Edouard Silas; 1856–1873. Nine volumes. *Bequeathed by the composer.*

George F. Warner.

Department of Oriental Printed Books and MSS.

Cataloguing and Arrangement.—The numbers of the sheets of the various Oriental Catalogues and other Publications of the Department sent to press in 1910 are:—Bengali Books, 14; Index to Chinese Encyclopædia, 14; Hebrew MSS., 5; Coptic Texts, 55; Kanarese Books, 19; Telugu Books, 2.

The numbers of Titles written for the Catalogues are:—Arabic, 722; Assamese, 30; Avestan, 14; Babylonian, 1; Bengali, 264; Berber, 1; Brahui, 2; Burmese, 92; Chin, 6; Chinese, 828; Coptic, 12; Ethiopic, 20; Gujarati, 41; Hebrew, 120; Hindi, 453; Hindustani, 394; Javanese, 14; Kannada, 679; Karen, 4; Kashmiri, 25; Kurdish, 5; Laos, 3; Lepcha, 2; Lushai, 3; Malay, 5; Malayalam, 34; Marathi, 120; Mongolian, 5; Oriya, 24; Pahlavi, 3; Pali, 171; Panjabi, 48; Persian, 919; Prakrit, 2; Pushtu, 15; Sanskrit, 1,063; Santali, 7; Siamese, 16; Sindhi, 8; Sinhalese, 187; Syriac, 42; Talaing, 2; Tamil, 345; Telugu, 830; Tibetan, 21; Tulu, 12; Turkish, 47.

Seventy-three Armenian MSS. and 58 Hebrew MSS. have been fully catalogued.

One hundred and nine short descriptions of MSS. have been entered in the Descriptive List, the Register, and the Classed Inventory.

One hundred and fourteen MSS. (21,261 ff.) and 5 Printed Books (1,051 ff.) have been folioed.

Publications.—Volume i. of the Coptic Texts (Coptic Homilies in the Dialect of Upper Egypt), a Supplementary Catalogue of Bengali Books, and a Catalogue of Kannada Books, have been issued.

Binding.—The numbers of Printed Books and MSS. sent to the binders are:—Arabic Books, 97; Chinese Books, 152; Hebrew Books, 20; Persian and Turkish Books, 54; Sanskrit and Pali Books, 181; Tibetan Books, 16; MSS., 271.

Students.—The number of visits of Students working in the Students' Room attached to the Department during the year is 2,218. The number of Oriental Printed Books consulted in the Department is 6,640 (3,992 issued once only, and 2,648 reserved), and of those used in the Reading Room, 2,619. The number of Oriental MSS. consulted in the Students' Room is 5,060.

Photography.—One hundred and twenty-seven applications have been made to photograph books and MSS.

Additions.—The number of volumes and pamphlets added to the Department during the year is 2,545, of which 2,339 are Printed Books and 206 are MSS.

Of the Printed Books, 642 were bought; 1,343 were received under the India Copyright Act; 220 were received under the

Colonial Copyright Act; and 134 were presented. Of the MSS., 70 were bought and the rest presented.

The MSS. are:—

Arabic	56	
Arabic and Persian	2	
Arabic and Turkish	4	
Coptic	100	(approximately).
Hebrew	2	
Hebrew, Aramaic, and Arabic	1	
Hindustani	1	
Manipuri	1	
Persian	16	
Persian and Turkish	3	
Siamese	2	
Syriac	1	
Turkish	17	
	206	

The most important acquisitions are:—

Arabic MSS.—(1) Minhāj al-bayān, a dictionary of simple and compound medicines, by Yaḥya b. ʻĪsa ibn Jazlah. Finely written and carefully collated. Copied A.H. 489 (A.D. 1095-6). 4°.

(2) Kitāb al-gharībīn, a lexicon of difficult words used in the Traditions, by Abu ʻUbaid al-Harawī. Copied A.H. 506 (A.D. 1112–3). 8°.

(3) Mujmil al-lughah, a lexicon, by Aḥmad b. al-Fāris Zakarīya al-Rāzī. Copied A.H. 589 (A.D. 1193). 4°.

(4) Vol. iii. of the Ṭabaḳāt of Ibn Saʻd, biographies of the Companions of Muḥammad and their followers. xiith century. 8°.

(5) Mukhtaṣar al-istīʻāb, an abridgment of Ibn ʻAbd al-Barr's Biographies of the Companions of Muḥammad, purporting to have been prepared by Abu Ṭāyy Yaḥya b. Khamīdah. xiiith century. 12°.

(6) Al-tārīkh al-mukhtaṣar, a history of Islam, by Jirjīs b. al-ʻAmīd (b. Abi al-Yāsir), extending to A.H. 658. Copied c. 1280 A.D. 8°.

(7) Ḳawā'id al-aḥkām fī maʻrifat al-ḥalāl wa'l-ḥarām, a treatise on Shiah law by Jamāl al-Dīn Ḥasan b. Yūsuf b. ʻAlī b. al-Muṭahhar al-Ḥillī; with copious marginal notes, probably from the Īḍāḥ, a commentary on the Ḳawā'id by a son of al-Ḥillī. Copied A.H. 712 (A.D. 1312–3). 8°.

(8) Sharḥ al-khutab al-Nubātīyah, a commentary by ʻAbd al-Rahīm b. Ibrāhīm al-Bārizī on the homilies of Ibn Nubātah (died A.H. 374), and on some homilies of the latter's son Abu Ṭāhir and grandson Abu al-Ḳāsim. Copied A.H. 716 (A.D. 1316–7). 8°.

(9) Kitāb al-uṣūl, a manual of the principles of jurisprudence, by Muḥyi al-Dīn al-Nawawī. Copied A.H. 724 (A.D. 1323–4). 8°.

(10) Jāmi' al-uṣūl, an exhaustive alphabetically arranged collections of the Traditions, by Ibn al-Athīr, in 5 volumes. Volumes 1–3 and 5, copied A.H. 725–31 (A.D. 1324–31); vol. 4, A.H. 1242 (A.D. 1826–7). 4°.

(11) Al-takrīb fī al-tafsīr, an abridgment, by Muḥammad b. Mas'ūd al-Shīrāfī al-Kālī al-Shukkār, of Zamakhsharī's commentary on the Koran. Vol. iv. Copied A.H. 742 (A.D. 1341–2). 8°.

(12) An extensive commentary on Zamakhsharī's Mufaṣṣal, with copious marginal and other glosses, redacted and probably copied by Muḥ. b. Muḥ. al-Khaṭīb (Fakhr al-Fasarḥānī). A.H. 772 (A.D. 1370–1). 4°.

(13) A commentary on the verses occurring in Zamakhsharī's Kashshāf. xivth century. 8°.

(14) Al-Ihtimām, a selection by 'Abd al-Karīm b. 'Abd al-Nūr b. Munaizir from Muh. b. 'Alī b. Wahb al-Ḳushairī's collection of traditions bearing on legal decisions. Copied A.H. 855 (A.D. 1451–2). 4°.

(15) Kitāb al-taisīr fī ḳirā'āt, a work on the early readings of the Koran, by Abu Amr 'Uthmān b. Sa'īd al-Dānī al-Muknī. xiv–xvth century. 12°.

(16) Kitāb al-shifā, the encyclopædia of philosophy by Ibn Sīnā (Avicenna). Elegantly written, and almost complete. vth century. 8°.

(17) A supercommentary by Al-Ṭayyibī upon Zamakhsharī's Kashshāf, with marginal excerpts from other commentators. In 2 vols., extending from Sūrah 26 to the end. xvith century. 8°.

(18) Miftāḥ al-arwāḥ fī imtidāḥ al-rāḥ, a collection of bacchanalian songs, compiled by Amīn al-Dīn 'Abd al-Muḥsin b. Maḥmūd b. al-Ḥalabī. Copied A.H. 1006 (A.D. 1597–8). 12°.

(19) Asmā al-rijāl, a biographical account of persons who handed down traditions from Muḥammad, the Caliphs, and the Imāms. Copied A.H. 1046 (A.D. 1636–7). 8°.

(20) Kitāb i'lām al-warā bi'l-i'lām al-hudā, lives of Muḥammad, 'Alī, and the Imāms. Copied A.H. 1049 (A.D. 1639–40). 8°.

(21) Lum'at al-taftīḥ, a commentary by 'Abd al-Ḥaḳḳ b. Saif al-Dīn b. Sa'd Allāh al-Dihlawī al-Bukhārī upon the Mishkāt al-maṣābīḥ (an enlarged edition of the Maṣābīḥ al-sunnah or collection of traditions) of Abu Muḥ. al-Ḥusain al-Baghawī. Vol. i. Copied A.H. 1078 (A.D. 1667–8). 8°.

(22) Tafsīr asmā allāh al-ḥusnā, a treatise on the names of God, by 'Abd al-Ḳāhir b. Ṭāhir al-Baghdādī al-Kurshī al-Tanūmī (died A.H. 429). Copied A.H. 1093 (A.D. 1682–3), from the author's autograph. 4°.

(23) Al-jawāhir al-thamīnah, a description of Medina and its neighbourhood, by Muḥ. Kibrīt al-Madanī. xviith century. 8°.

(24) A ms. containing four Druze religious works. xviith century. 8°.

(25) Iḥkāḳ al-ḥaḳḳ, a Shiah work in answer to the Ibṭāl al-nahj of Faḍl b. Rūzbahān, a criticism upon the Shiah book Kashf al-ḥaḳḳ wa nahj al-ṣidḳ wa ṣawāb of Al-Ḥillī; by Nūr Allāh Shushtarī. Together with the text of Al-Ḥillī's work. Copied A.H. 1103 (A.D. 1691–2). 4°.

(26) Lulu ata'i al-baḥrain, lives of learned Shiahs, by Yūsuf b. Aḥmad al-Baḥrānī. xviiith century. 8°.

(27) Sabā'ik al-'asjad, a biography of Aḥmad b. Muḥ. Nahl Rizḳ al-As'ad and other contemporary poets, etc., by 'Uthmān b. Sanad al-Baṣrī. xixth century. 8°.

Arabic and Persian MSS.—(1) A Persian commentary on portions of the Koran, by Abu Bakr b. 'Umar b. Abu al-Faḍl. Copied A.H. 867 (A.D. 1462–3). 16°.

(2) A volume containing various religious works, chiefly by Al-Ghazzālī. xviith century. 16°.

Coptic MSS.—(1) A collection of fragments of Coptic papyri, about 150 in number, containing portions of the Bible (chiefly from the Gospel of John) and miscellaneous patristic works, with some documents. *Presented by Henry Martyn Kennard, Esq.*

Hebrew MS.—(1) The commentary upon the Jewish Prayer-book by David b. Joseph Abudraham, in a North African hand. Copied A.M. 5237 (A.D. 1477). 4°.

Hebrew Books.—(1) Sepher Misvoth Gadol, a treatise on religious duties by Moses b. Jacob of Coucy. Apparently printed at Rome, before 1840. Fol.

(2) The Former Prophets (Joshua to Kings), with commentaries. 3 vols. Leiria, 1494. 4°.

(3) Tur Orah Hayyim, a digest of religious law. Leiria, 1495. 4°.

(4) Abudraham's Commentary on the Prayer-book. Fez, 1516. 4°.

Hebrew, Aramaic, and Arabic MS.—(1) The Samaritan Pentateuch, with the Aramaic and Arabic versions in parallel columns. Finely written on vellum, about A.D. 1200. Fol.

Manipuri MS.—(1) A ms. written on thin plates of wood, in the archaic Manipuri character. xviith or xviiith century.

Persian MSS.—(1) Zīj-nāmah, a calendar computed in the second quarter of the 7th century of the Hijra, at the observatory of Maragha. Copied A.H. 676 (A.D. 1277–8) 4°.

(2) Ṭabaḳāt khwājahgān i Nakshbandīyah, an account of the chief dervishes of the Nakshbandi order, by Ḥusain Vā'iẓ Kāshifī. Copied A.H. 961 (A.D. 1553–4). 8°.

(3) An anthology of poetry from various poets. Exquisitely written in a small nastalik hand. xviith or xviiith century. 8°. *Presented by Robert R. Steele, Esq.*

(4) Dīvān i Hātifī, a collection of the minor poems of Hātifī. xviiith century. 8°.

Persian and Turkish MS.—(1) The Dīvān or poetical works of Bairam Khān (died 1561), with miniatures. xviith century. 4°.

Turkish MSS.—(1) Mihr u Māh, an allegorical poem by 'Alī. Copied A.H. 1018 (A.D. 1609–10). 8°.

(2) Kitāb i Manāḳib i Maulānā Jalāl al-Dīn Rūmī, a life of the poet Jalāl al-Dīn Rūmī, compiled by Shaikh 'Abd al-Laṭīf Sinān Dede, chiefly from the sayings and traditions of Al-Rūmī's son Sulṭān Valad. Copied A.H. 1030 (A.D. 1620–1). 8°.

(3) Tavārikh i āl i 'Uṣmān, a history of the Ottomans from the rise of 'Uṣmān in A.H. 687 to Bayāzid II., A.H. 896, attributed to Kamāl Pāshā Zādah. Copied A.H. 1039 (A.D. 1629–30). 8°.

(4) A ms. containing the Ẓafar-nāmah of Nābī Efendī, letters by Vaisī, Ḥālatī, and 'Abd al-Karīm Efendī, letters from Mīr 'Alī Shīr Navā'ī to Jāmī, Futūḥ i Miṣr by Fuzūlī Baghdādī, accounts of the conquest of Crete, etc., compiled and written out by Darvīsh Ibrāhīm b. Sulaimān. Copied A.H. 1090–1103 (A.D. 1679–92). 8°.

(5) Ḳābūs-nāmah, translated by Naẓmī-zādah Murtaẓah from the Persian ethical treatise of the same name. Copied A.H. 1139 (1726–7). 8°.

(6) Vilādat-nāmah i Humāyūn (Rūz-nāmah, or Rūz-numā'ī i Humāyūn), prose works of Muḥ. Rāghib Pāshā, with some verses. Copied A.H. 1198 (A.D. 1783–4). 8°.

(7) Sulaimān-nāmah, or Tārīkh i Sulṭān Sulaimān, a history of Sulaimān I (reigned A.H. 926–74) and of the eminent men of his age, by 'Abd al-'Azīz Efendī (Ḳara Chelebi Zādah). Copied A.H. 1201 (A.D. 1786–7). 8°.

(8) A volume containing letters, etc., by Vaisī. xviith century. 8°.

(9) Durrat al-tāj fī sīrat i ṣāḥib al-mi'rāj, a life of Muḥammad down to the first battle of Badr, by Vaisī. xviith century. 8°.

(10) A volume of biographies of the Sultans, Viziers, and Shaikhs of the Ottoman Empire. xviiith century. 8°.

(11) Ā'īnah i ẓurafā, an account of the life and works of the chief Turkish historians, by Muḥ. Jamāl al-Dīn. xviiith century. 8°.

(12) Tarājim i ahālī i fatwā, lives of eminent muftis. xviiith century. 12°.

(13) Tārīkh i wazī'at, a treatise on the ancient Turkish system of military fiefs, by 'Alī. xviiith century. 8°.

(14) Dāmigh al-nuṣairīyah, an account of the tenets of the Nuṣairi sect, by Muṣṭafā b. Abi Bakr al-Kaiṣari. Copied A.H. 1272 (A.D. 1855–6). 8°.

L. D. Barnett.

Department of Prints and Drawings.

I.—*Arrangement and Cataloguing, etc.*

An exhibition of the drawings bequeathed by the late Mr. George Salting was arranged in the public gallery of the Department in March, replacing the exhibition of works by Dürer. In May these drawings were removed, and a selection of them has since been shown on screens in the King's Library. From one screen the Salting drawings were removed in December, in order to give place to eleven drawings by Dante Gabriel Rossetti, the bequest of the late Col. William James Gillum.

In June an exhibition of Chinese and Japanese paintings, forty-seven of the most important of the Chinese series being from the collection acquired early in the year from Frau Olga-Julia Wegener, was opened in the public gallery of the Department. A guide to the exhibition has been printed and put on sale.

The etchings and engravings in the Salting Collection have been examined and compared in detail with the impressions already in the Department. Those immediately wanted for the main Museum Collection have been incorporated with it; and the duplicates thus displaced have been included in a new list of additional duplicates available for exchange.

The prints from the Salting and Malcolm Collections not immediately wanted for the main Museum Collection have been arranged in a new reserve series.

The engraved work of Albrecht Dürer has been rearranged in chronological order and placed in four solander cases, instead of the three formerly occupied.

The lithographs of H. Daumier have been rearranged in the order of Delteil's catalogue, one hundred and fifty-four new specimens being incorporated with the collection.

The collection of etchings by Sir F. Seymour Haden, acquired from the artist's executors, has been arranged in three portfolios.

Fifty-four drawings and one thousand four hundred and forty-six prints have been incorporated with the divisions of the collection to which they severally belong.

All books of prints and books of reference recently acquired have been catalogued, labelled, and placed.

Fifty-six pamphlets have been arranged for binding in volumes.

The Catalogue of Early Italian Prints, in two volumes, one of text, the other of illustrations, has been published.

Vol. II. of the Catalogue of Engraved British Portraits has been published.

The preparation of a critical and descriptive catalogue of the collection of Japanese Woodcuts has been continued.

Vol. II. of the Catalogue of Early German and Flemish Woodcuts has been completed and, with the exception of the Appendix of supplementary notes, printed off.

The preparation of a complete classified index of the works of English artists represented in the Department has been continued.

The preparation of a card-index to articles in periodicals has been begun.

The work of writing slips for the titles of prints after English Masters, with a view to the preparation of a subject index to that division of the collection, has been continued.

The work of examining the Franks Collection of trade-cards, admission tickets, etc., and removing those of which there are duplicates in the Banks Collection has been continued.

The work of writing and arranging slip-titles of the Books of Prints and Books of Reference has been taken in hand as the first step towards the preparation of a complete shelf-list or index to the contents of presses.

The work of compiling a typographical slip-index to the English drawings in the Department has been begun.

The preparation of slips for an index to the collection of photographs presented by the National Photographic Record has been continued.

The work of inserting additions and corrections to Chaloner Smith's Catalogue of British Mezzotinto Portraits in a second copy, interleaved, has been begun.

The typewriting for press of the Catalogue of Japanese Woodcuts has been continued.

Additions and corrections to the indexes of artists, rendered necessary by recent acquisitions and re-arrangements, have been carried out.

The compilation of a second working copy of the register of the Cheylesmore Collection has been begun.

Registration.—Four thousand and sixty-six items have been entered in the Register of Acquisitions.

Stamping and Mounting.—Five thousand eight hundred and eighty-one prints, drawings, etc., recently acquired, have been impressed with the departmental stamp and references to the Register.

One hundred and thirty-five miscellaneous drawings have been prepared and mounted on sunk mounts, and five hundred and thirty-nine prints have been mounted either in sunk mounts or in the ordinary manner.

The prints by Urs Graf have been guarded and mounted in a volume.

Seventy-four prints from the Lanna Collection have been mounted in the volumes containing the works of the Little Masters.

One hundred and forty-three duplicate prints selected for exchange have been mounted and stamped with a special stamp.

The work of stamping the foreign book-plates in the Franks Collection has been begun.

Five drawings by Michelangelo have been protected with gelatine and mounted in special mounts.

Seven Chinese paintings, four Japanese paintings, one hundred and forty-five Japnese Woodcuts, requiring special treatment, have been repaired and cleaned.

Students.—The total number of visitors admitted to the Print Room during the year ending 31 December 1910 was 9,343.

Photographing.—Four hundred and five applications were made for leave to photograph, and 2,418 photographs were taken.

II.—*Acquisitions.*

The year 1910 has been marked in the history of the Department by an unusual number of important acquisitions, some made by bequest, some by gift, some by purchase, and some by gift and purchase combined. The bequest of the late Mr. George Salting, received in January, included two hundred and twenty-seven drawings and two hundred and eight engravings of various schools, many of them of the highest value and importance. In February the chief part of the collection of ancient Chinese paintings formed by Frau Olga-Julia Wegener, to the number of a hundred and forty-seven pieces in all, was acquired partly by purchase and partly by a fund privately subscribed. In April a large and representative collection of the etchings of Sir Francis Seymour Haden, formed expressly for the Museum by the artist, was purchased. About the same time Mrs. Robert Low presented fifty-nine drawings by various foreign and English masters, from the collection of her late husband. Lady Layard gave a hundred and ninety-two engraved portraits, chiefly French and Italian. The National Art Collections Fund presented six of the finest designs made by Alfred Stevens for ceramic and goldsmith's ware, and an impression of the excessively rare Japanese colour print "the Awabi fishers," by Utamaro. In November Messrs. Agnew presented forty-two proofs of modern engravings, including the most important of their publications of recent years. In December eleven drawings by Dante Gabriel Rossetti, bequeathed to the Museum by the late Col. Gillum,

subject to his widow's life interest, were generously handed over by Mrs. Gillum at the sacrifice of her own interest.

The total number of prints, drawings, etc., acquired during the year was 4,926, of which the following are the most important.

Collections and sets are placed first, miscellaneous acquisitions follow.

Collections and Sets.

Salting Bequest.

Drawings.—Two hundred and ninety-one in all, divided among the various schools as follows :—

Italian School.

Abbate, Niccolo dell', one ; Fra Bartolommeo and school, three ; Barocci, Federigo, one ; Buonarroti, Michelangelo, one (attributed) ; Campagnola, Domenico, three ; Canale, Antonio, ten, including some of the finest and most important known examples ; Carracci, Annibale, one ; Castiglione, Benedetto, one ; Correggio, one (attributed) ; Credi, Lorenzo di, one ; Guardi, Francesco, one ; Guercino, seven, including several of exceptional quality ; Mantegna, school of, one ; Parmegiano, two ; Perugino, school of, one ; Romano, Guilio, one ; Sarto, Andrea del, one ; Tintoretto, one, and another attributed ; Venetian school, one.

Spanish School.

Cano, Alonso, three ; Murillo, B. E., two.

French School.

Boissieu, J. J. de, one ; Clouet, Jean and Francois, and other contemporary artists of their school. a series of thirty-two portraits collected by Ignatius Hugford.

Duplessis-Bertaux, Jean, four ; Gellée, Claude, six ; Lancret, Nicholas, one ; Poussin, Nicholas, one ; Saint-Aubin, Augustin de, one ; Silvestre, Israel, three ; Watteau, Antoine, five ; Wille, Jean Georges, one.

German School.

Dürer, Albrecht, two ; Elsheimer, Adam, one ; Holbein, Hans II., one, a portrait-head, unsurpassed in its kind among the artist's works.

School of the Netherlands.

Avercamp, H. van, one ; Bakhuysen, Ludolf, three ; Berchem, C. P., five ; Bol, Hans, one ; Both, Jan, two ; Brouwer, Adriaen, one ; Brueghel, Pieter I., one ; Brueghel, Jan, two ; Cappelle, Jan van de, one ; Cats, Jacob, three ; Cuyp, Aelbert, five ;

Dusart, Cornelis, one; Everdingen, A. van, four; Goyen, Jan van, three; Huysum, Jacob van, six; Huysum Jan van, two; Jardin Carel du, one; Leeuwen, G. J. van, two; Lievens, Jan, two; Molyn, Pieter I., four; Momper, Joos de, one; Moucheron, Isaak de, one; Ostade, Adriaen van, six; Potter, Paulus, six; Rembrandt, sixteen, and one attributed; Rubens, P. P., two; Ruysdael, Jacob van, two; Snyders, Frans, two; Swaneveldt, Herman van, one; Terborch, Gerard, one (attributed); Velde, Adriaen van de, three; Visscher, Cornelis, one; Weyden, Rogier van der, after, one; Wouwerman, Philips, one; Zeeman, Reinier, one.

Artists of Foreign Schools working in England.

Gravelot, Hubert, three; Hollar, Wenzel, two; Van de Velde, William II., seven; Van Dyck, Anthony, eight; Zuccarelli, Francesco, one.

English School.

Bonington, R. P., two; Calcott, Sir A. W., R.A., two; Constable, John, R.A., twelve; Cox, David, three; Cozens, J. R., one; De Wint, Peter, five; Fielding, Copley, one; Haxman, John, R.A., one; Gainsborough, Thomas, R.A., eleven, including one of the finest figure-studies of the master; Holland, James, two; Landseer, Sir Edwin, R.A., three; Stothard, Thomas, R.A., six; Turner, J. M. W., R.A., eighteen, including the "Vale of Ashburnham," "Vale of Heathfield," "Heysham," "Lancaster Sands," and other important water-colours; Ward, James, R.A, one; Wilkie, Sir David, R.A., one.

Engravings.—One hundred and fifty-three in all, divided among the various schools, as follows:—

Italian School.

Campagnola, Domenico, one; Nicoletto da Modena, one; Marco dâ Ravenna, one; Raimondi, Marcantonio, twenty-four; Marcantonio, school of, one; Robetta, one.

German School.

Aldegrever, Heinrich, one; Beham, Barthel, one; Beham, Hans Sebald, three; Dürer, Albrecht, fifteen, including exceptionally fine impressions of the Crucifixion (B. 24), St. George standing (B. 53), and the portrait of Pirkheimer (B. 106); Schongauer, Martin, two.

Schools of the Netherlands.

Leyden, Lucas van, three; Ostade, Adriaen van, six; Rembrandt, forty-nine, nearly all brilliant or fine impressions, including the "Christ at Emmaus" (Rov. 17) in an undescribed state, and the "Landscape with a square Tower" (Rov. 218) in a state hitherto unrepresented in the collection; Waterloo, Antonie, eighteen.

FRENCH SCHOOL.

Gellée, Claude, three; Soterlet, L. H., one.

ARTISTS OF FOREIGN SCHOOLS WORKING IN ENGLAND.

Hollar, Wenzel, eight.

ENGLISH SCHOOL.

Turner, J. M. W., R.A., two proofs of the Liber Studiorum.

JAPANESE SCHOOL.

Hokusai, one; Kiyonaga, one; Kiyomitsu, one; Kiyonobu, one; Masanobu, Okumura, one; Shuncho, one; Shunman, one; Shunzan, one; Utamaro I., one; Utamaro II., one; Yeisho, one.

Wegener Collection.—One hundred and forty-seven paintings collected in China by Frau Olga-Julia Wegener. The collection includes two paintings attributed to masters of the T'ang dynasty (618–905 A.D.); ten to masters of the Sung and Yüan dynasties (960–1368 A.D.); sixty-nine to masters of Ming dynasty (1368-1644), and sixty-six to masters of the present Ch'ing dynasty. Among the more important and beautiful examples may be mentioned:—Han Kan (T'ang dynasty), A pony; Anonymous master (Sung dynasty), Geese; Chao Chang (Sung dynasty), Peonies and Magnolia (attributed); Chao Mêng-fu (Sung and Yüan dynasties) Two Horses, and Landscape with a sage in a boat; Anonymous master (Yüan dynasty), The Goddess of Mercy.

Lü Chi (Ming dynasty) Fowls and Flowering trees; Anonymous Masters of the Ming dynasty, The Earthly Paradise, Phœnixes, Portrait of a Lady; Wu Wei (Ming dynasty) Man carrying faggots; Chia Pin (Ming dynasty) Eagle attacking a Bear; Ch'en Chü-Chung (Ming dynasty) Tiger; Lü-hsüeh (Ch'ing dynasty). The Demon-queller; Hsü Mei (Ch'ing dynasty), Fairy scattering flowers; Ying-Pao (Ch'ing dynasty), Hawk; the late Dowager-Empress, study of flowers.

Robert Low Collection.—Fifty-nine drawings of the Italian, Dutch, Flemish, French, and English Schools, selected from the Robert Low Collection and including examples of G. P. Pannini, Aelbert Cuyp, G. van den Eeckhout, A. G. Decamps, Eugène Delacroix, L. G. E. Isabey, Henri Regnault, Charles Keene (eight studies for "Punch"), Sir Godfrey Kneller (study for portrait of Alexander Pope), Samuel Lover, C. H. Poingdestre, and C. W. Wyllie. *Presented by Mrs. Robert Low.*

Seymour Haden Collection.—Two hundred and seventy-six etchings, dry-points and mezzotints by Sir Francis Seymour Haden, P.R.E., representing ninety subjects; a series specially brought together by the Artist and destined for the British Museum. Purchased.

Gift of Lady Layard.—One hundred and ninety-two engraved portraits, chiefly French and Italian, including a

select number of fine examples by Jean Audran, J. J. Baléchou, J. Beauvarlet, J. Daullé, Pierre Drevet, N. de Launay and other French eighteenth-century masters of line-engraving. *Presented by Lady Layard.*

Gift of Messrs. Agnew.—A set of forty-two proofs of modern engravings and etchings published by Messrs. Agnew, chiefly after English Masters, including a number of mezzotints by Norman Hirst, J. B. Pratt, H. Scott Bridgwater and Richard Smythe. *Presented by Messrs. Thos. Agnew and Sons.*

Gift of Mr. Leggatt. — Two hundred and twenty-one engraved portraits, including a set of twenty-four portraits of Ladies of the Court of Queen Victoria and one hundred and eighty modern and contemporary portraits from "The Cabinet Portrait Gallery," 1890–1894. *Presented by E. E. Leggatt, Esq.*

Gift of the Medici Society.—Fifty-two coloured reproductions of paintings by Old Masters, being the publications of the Medici Society for the year 1910. *Presented by the Medici Society, Ltd.*

Gift of the National Survey and Record.—Two hundred and thirty-two platinotype photographs of ancient or interesting buildings and monuments in various parts of the United Kingdom; in continuation of the National Survey and Record. *Presented by the Secretary on behalf of the contributors to the Survey and Record.*

Miscellaneous Acquisitions.

Italian School.

Drawings.

Bazzi, Giovanni Antonio. Pietà; pen and ink. From the Cosway, Robinson, and Richter Collections.

Castiglione, Giovanni Benedetto. Shepherd and flock; body colour. From the Champernowne Collection. Cardi, Lodovico. Martyrdom of St. Sebastian; pen and bistre. From the Reynolds and Champernowne Collections.

Credi, Lorenzo, school of. Madonna and child; silver-point on brown prepared paper, heightened with white.

Guardi, Francesco. Study of a Virgin; black chalk on blue-gray paper, heightened with white. *Presented by G. A. Simonson, Esq., through the National Art Collections Fund.*

Pannini, Giovanni Paolo. Landscape with antique sculpture and figures; pen and bistre, with Indian ink wash. From the Spencer and Champernowne Collections.

Pontormo, Jacopo. Nude figures; black chalk. From the Spencer and Champernowne Collections.

Tiepolo, Giovanni Domenico. Fortezza; pen and bistre with yellow wash. From the Reynolds and Champernowne Collections.

Engravings.

Anon. Niello print. Virgin and Child, with kneeling figure of young man (Duch. 64, Dut. 165). From the Lanna Collection.

Brescia, Giovanni Antonio da. Panel of ornament (Hind, 32).

Campagnola, Giulio. St. John the Baptist (B. 3). From the Alfred Morrison Collection.

Ghisi, Giorgio. Thetis; after P. del Vaga (B. 33). From the Tetlow Collection. *Presented by Prof. Selwyn Image.*

Rota, Martin. Portrait of Andreas Gaill (B. 70).

Etchings.

Bracelli, Giovanni Battista. Set of twelve grotesques. *Presented by Campbell Dodgson, Esq.*

Piranesi, Giovanni Battista. Six etchings. *Presented by B. T. Batsford, Esq.* "I Carceri"; fourteen of the plates of this series in the excessively rare first state.

GERMAN SCHOOL.

Drawings.

Altdorfer, Albrecht. A wild man of the woods; pen and ink on reddish-brown ground heightened with white. Dated 1508.

Brosamer, Hans, attributed to. Christ seated in a landscape; pen and ink, dated 1533. St. Jerome in penitence; pen and ink. From the Ferstel Collection. Three Roman warriors climbing round the base of a statue; pen and Indian ink, heightened with white, on purple ground. Signed with monogram and dated 1552.

Dürer, Albrecht, school of. Assumption and coronation of the Virgin; pen and ink partially tinted with water-colours.

Huber, Wolfgang. Man waving a banner; pen and ink, dated 1515. From the W. Koller Collection. Head of a peasant; black chalk and brush. From the Hudson, Bouverie, and Roupell Collections. *Presented by Max Rosenheim, Esq. F.S.A.*

Master of the Legend of St. Benedict. St. Benedict giving to a crow the poisoned bread offered him by Florentius.

Engravings.

Altdorfer, Albrecht. Capital and base of a column, after G. A. da Brescia. Undescribed; the only other impression known is at Weimar. From the Lanna Collection.

Beham, Barthel. Virgin and Child. (B. 6.)

Flindt, Paul. Design for a chalice. From the Lanna Collection.

Woodcuts.

Anon. XV. century. The Virgin in embroidered robe. Coloured. Undescribed.

Anon. Portrait of Martin Luther. From the Mitchell and Theobald Collections.

Breu, Jörg II., after. Dives and Lazarus. Rare contemporary copy from the unique original in the British Museum. From the Santarelli and Lanna Collections. *Presented by the National Art Collections Fund.*

Burgkmair, Hans I. Alboin and Athanaric (B. 63); proof before the lettering on the shield. *Presented by Prof. H. Helferich.* Three subjects from the Weiss-könig series.

Cranach, Lucas II. Portrait of Melancthon (Heller 304). From the Lanna Collection.

Dürer, Albrecht. Portrait of Ulrich Varnbüler (B. 155). Chiaroscuro, in brown. From the Durazzo and Lanna Collections.

Monogrammist A. The conversion of Saul (B. VII. 473 I.) From the Lanna Collection.

Weiditz, Hans. Medallion portraits of Erasmus and Ulrich von Hutten. From the Lanna Collection.

Schools of the Netherlands.

Drawings.

Breughel, Jan. Wooded landscape with animals; pen and sepia. From the Sandby and Champernowne Collections.

Jordaens, Jacob, or school. Apollo and Marsyas; black chalk and body-colour. From the Champernowne Collection. The Adoration of the Magi; pen and bistre with water-colours and body-colours. From the Lanckrink and Champernowne Collections.

Neer, Eglon van der. Portrait of the minature painter Maria du Chatel; pastel. From the de Visser, Van der Willigen, and Lanna Collections.

Quellinus, Erasmus. Two designs for emblematic portraits; pen and bistre and bistre wash, heightened with white.

Engravings.

Gheyn, Jacob de I. Portrait of Tycho Brahe. Undescribed. From the Lanna Collection.

Goltzius, Hendrik. Ceres, Bacchus and Amor (B. 155). Impression from the silver print in the K. K. Hofmuseum, Vienna. From the Lanna Collection.

Hameel, Alart du. St. Christopher (P. 10). From the Lanna Collection.

Wierix, Hieronymus. The Mocking of Christ (Alvin, 1762). Faith, Hope and Charity (Alvin, 1390). *Presented by Sydney Vacher, Esq.*

Wierix, Jan. Eloquence (Alvin 1396). *Presented by Sydney Vacher, Esq.*

Woodcuts.

Negker, Jost de. St. Christopher.

French School.

Drawings.

Duvet, Jean, attributed to. The Patriarchs in Limbo listening to the preaching of Christ; pen and ink. From the Lanna Collection.

Rodin, Auguste. Study from the bust of J. P. Laurens.

Etchings.

Rodin, Auguste. Allégorie du Printemps (Delteil 4); Head of Victor Hugo full face (D. 7 II.); Head of Victor Hugo, three-quarter face (D. 6 II.).

Engravings.

Debucourt, P. L. Portrait of Louis XIII., after J. B. Isabey.

Isac, Jasper. The Holy Family; Themistodes; The Resurrection; All Saints. *Presented by Sydney Vacher, Esq.*

Lithographs.

Daumier, Honoré. One hundred and fifty-five prints. *Presented by Campbell Dodgson, Esq.*

Prints arranged to illustrate the Works of Masters.

Isabey, Jean Baptiste. Opening of a dock at Cherbourg; aquatint by B. Piringer. Soldier smoking; Mother and Child walking; aquatint by F. Aubertin.

Artists of Foreign Schools working in England.

Drawings.

Hondius, Abraham. Four studies of dogs; black chalk or pen and ink. *Presented by E. V. Lucas, Esq.*

Legros, Alphonse. Procession in a Spanish Church; early state, undescribed, and a later state, also undescribed. *Presented by the National Art Collections Fund.*

English School.

Drawings.

Belcher, George. Two studies, one in pencil, the other in chalks and water-colours. *Presented by the Artist.*

Beverley, William Roxby. Three studies of boats; pencil, pencil and water-colours, pen and wash.

Herald, J. W. Venetian Fete. On the Sands, Arbroath. *Presented by A. E. Anderson, Esq.*

Knight, John Baverstock. Glenarm Bay, Antrim. View in Borrowdale. View in Cumberland. Three water-colours. *Presented by the National Art Collections Fund.*

May, Phil. Figure study. *Presented by Otto Gutekunst, Esq.*

O'Connor, John. Interior of a church at Caen; water-colours.

Palmer, Samuel. Tintagel; water-colours. From the J. C. Hook Collection.

Penley, Aaron Edwin. Mountain scenery; water-colours. *Presented by E. E. Leggatt, Esq.*

Ross, Sir William. Portrait of Isaac Disraeli; red and black chalk.

Rossetti, Dante Gabriel. "Found"; pen and ink. Dated 1853. Hamlet and Ophelia; pen and ink. Cassandra; pen and ink. The Sangrael; pen and sepia; design for decoration of the Oxford Union. La Belle Dame sans Merci; pencil, pen and ink, and wash; unfinished. Two portraits of Miss Siddal; pencil. Head of an Irish girl, Kittie Macsie; pencil and Indian-ink wash. Orpheus and Eurydice; pencil, unfinished. Dante relating his dream; black chalk. Dante and Love; pencil. *All bequeathed by the late Col. William James Gillum.*

Sandys, Frederick. Miss Herbert, full-length study; black chalk, heightened with white. Study of a woman's head in profile. "Phryne"; pencil. Sheet with two studies for the woman's head in "Amor Mundi"; pencil. Study for the same head; pencil. Sheet of studies of a woman's head for the woodcut "Manoli"; pencil.

Stevens, Alfred. Design for covered vase on a base ornamented with swans; pen and ink tinted with water-colours and gold. Black and white covered vase; pen and ink, washed with ink, heightened with gold. Blue and white covered vase; pen and ink with water-colour wash. Blue and yellow covered vase; water-colours. Cup, surmounted by a figure of Neptune; design for plate; pencil. Architectural design for the decoration of an interior; pencil, pen and ink, and Indian-ink wash. *All presented by the National Art Collections Fund.*

Wilson, Richard, R.A. Rome from Ponte Mola; black chalk. From the Rogers and Champernowne Collections. San Stefano Rotondo, the Claudian Aqueduct and the Lateran; black chalk. From the Champernowne Collection.

Etchings.

Brangwyn, Frank, A.R.A. Mr. Singer's book-plate. Signed proof before the name. *Presented by Miss E. P. McGhee.*

Cameron, D. Y. Four etchings of Egyptian subjects. *Presented by the Artist.*

Dodd, Francis. Portrait of Jacob Epstein. Drama at a Fair; touched proof. *Presented by the Artist.*

Lumsden, Ernest Stephen. Thirty-seven etchings, chiefly of scenes in Scotland or in Paris. *Presented by the Artist.*

Palmer, Samuel. The Early Ploughman (in two states). Christmas, or Folding the Last Sheep. Sunset, or The Herdsman's Cottage. The Lonely Tower.

Robinson, Sir J. C., C.B. Space and Light, Sierra de Almaden. The Agglestone. Poole Harbour from Covingdon Heath. Corfe Castle. Sunlight and Mist, Swanage Downs. Apollo and Python. Wareham. *All presented by the Artist.*

Engravings.

Campbell, Charles William. Thirteen mezzotints (three in two or more states), including the Virgin of the Rocks, after Leonardo, the portrait of G. F. Watts, after his own painting, and Pan and Psyche, after Sir E. Burne-Jones.

Reynolds, Samuel William. Portrait of George III.; proof, with pencil corrections by the Prince Regent.

Woodcuts.

Moore, T. Sturge. Design for a book-binding for "A Conflict." *Presented by the Artist.*

Pissarro, Lucien. La Cour de Soliman-ben-David; printed in colours. *Presented by the Artist on behalf of the Société de l'Estampe Nouvelle.*

Ricketts, Charles. Three illustrations to "Danaë," a poem by T. S. Moore. *Presented by Campbell Dodgson, Esq.*

Lithographs.

Conder, Charles. Invitation card for Mr. and Mrs. Edmund Davis. *Presented by Mrs. Davis.*

Prints arranged to illustrate the Works of Masters.

New, Edmund Hort. Magdalen College, Oxford. *Presented by the Artist.*

Reynolds, Sir Joshua, P.R.A. The Banished Lord. Mezzotint by W. Say; undescribed.

Chinese School.

Paintings.

Wên Chêng-ming. The Hundred Stags.

Wên T'ung. Bamboos by a stream.

Both presented by George T. Veitch, Esq.

Japanese School.

Paintings.

Sotan, Oguri, school of. An eagle. *Presented by Charles Ricketts, Esq.*

Woodcuts.

Harunobu, Pheasants on a river-bank. Woman hanging clothes. Maid drying her mistress's feet. Young fisherman in a boat. Girl playing *biwa*.

Hiroshige. Moonlight on Kanazawa bay. Kisoji no Yama Kawa; mountains in snow. The two most famous triptychs by the artist.

Hokusai. Six prints (one in two impressions) from the rare set of ten entitled Shika Sha-shin-kyo. The complete set, ten in all, of the small "Flowers and Birds," in exceptionally fine impressions.

Kiyohiro. Three groups of two actors each; uncut triptych.

Kiyonaga. Two girls carrying pails of salt water. Two girls and a man with a pipe. Women and children hanging poems on blossoming boughs. Shishi-dancers.

Kiyonobu. Gods of Good Luck fishing; hand-coloured. Two actors in a tableau.

Koriusai. One of Twenty-four Examples of Filial Piety; ink prink. *Hashirakaké.*

Kunimasa. Actor in female part.

Kuniyoshi. Coolies in rain on a river bank.

Kwaigetsudo. A beauty; ink print. *Kakemono-ye.*

Masanobu, Okumura. Two girls walking, attended by a boy carrying a box. *Beni-yé.*

Shuncho. Group of girls under bamboo; diptych.

Shunman. Night-scene, people with lanterns passing a house; triptych. A rare and important print.

Shunsho. Combat by a castle-moat; triptych.

Shunyei. Street-scene with procession; triptych.

Shuncho and Shunyei. Girl reading a poem.

Torin, Shunman and Rinsho. Jurojin and Fukurokujiu playing "go."

Toyokuni. Lady in a bath. Two women in a bamboo grove. Lady alighting from a litter; triptych. Girls hanging poems on trees on a windy day; triptych. Picnic party on the sea-shore; triptych.

Utamaro. The Awabi Fishers; triptych. From the Burty Collection. The rarest and most famous of the artist's works. *Presented by the National Art Collections Fund.* Girl with a wine-glass (Kurth, 258). Pleasure boat and fishing-boat on a moonlit river; triptych.

Yeiri. Benten, Hotei, and Daikoku. *Hashirakaké.*

Yoshimaru. Interior of a theatre.

Portraits.

Foreign.

Frederick William, Prince Hohenlohe. Mezzotint by J. Jacobe, after Füger, 1794. From the Lanna Collection.

Leopold I., King of the Belgians. Engraved by H. Meyer, after A. E. Chalon. *Presented by E. E. Leggatt, Esq.*

Napoleon I. Bust in an oval; stipple print by Mecou, after Isabey. Whole-length; by the same engraver, also after Isabey.

Marie Louise, Empress. Mixed stipple-print by Mecou, after Isabey.

English.

H.R.H. George, Duke of Cambridge. Engraving in a mixed manner by T. O. Barlow, after John Lucas. *Presented by E. E. Leggatt, Esq.*

James II., when Duke of York. Engraving by Edward Le Davis.

Pitt, William. Mezzotint by S. Cousins, after the statue by Chantray. *Presented by E. E. Leggatt, Esq.*

Book-plates.

Plate (in two states) of the Shakespeare Memorial Library, Stratford-on-Avon, by C. W. Sherborn. *Presented by W. S. Bassington, Esq.*

Plate of the Salters' Company. By R. Anning Bell. *Presented by Sydney Vacher, Esq.*

BOOKS OF PRINTS AND BOOKS OF REFERENCE.

Basily-Callimaki, Madam de. J. B. Isabey, sa vie, son temps. 1909.

Bode, Wilhelm. "Die Sammlung Oscar Huldschinsky." 1909.

Briquet, C. M. Les Filigranes. 4 vol. 1907.

Finberg, A. J. Inventory of the Turner Drawings in the National Gallery. 2 vol. *Presented by the Keeper and Secretary, National Gallery.*

Japanese Art, Selected Relics of. Edited by S. Tajima. Vols. XII.–XIV. and XVI.–XX. 1906–1908.

Koechlin, Raymond. Estampes japonaises primitives. 1909.

Lehrs, Max. Geschichte und Kritischer Katalog des Kupferstichs im XV. Jahrhundert.

Mackay, W., and Roberts, W. John Hoppner, R.A. 1909.

Maruyama School, Masterpieces selected from the. Edited by S. Tajima. 2 vols. 1909.

Piranesi, G. B. I. Carceri.

Prout, Samuel. Rudiments of Landscape, in progressive studies.

Radnor Collection of Pictures. Catalogue, by Helen Matilda, Countess of Radnor, and W. Barclay Squire. 2 vol. 1909.

Thucydides. German translation by Hieronymus Boner, with woodcuts by Schäufelein, J. Breu I. and II., and Weiditz. 1533. *Presented by Campbell Dodgson, Esq.*

Sidney Colvin.

DEPARTMENT OF EGYPTIAN AND ASSYRIAN ANTIQUITIES.

I.—*Arrangement, Cataloguing, etc.*

EGYPTIAN ANTIQUITIES:—

The general re-arrangement of the Egyptian Collections has been continued and all the important objects acquired during the year have been incorporated and exhibited.

The labelling of the exhibits has been continued.

The sub-plinths of many stelæ, etc. in the Vestibule have been faced with granite, and several of the larger objects have been provided with granite bases and pedestals.

The washing and cleaning of several monuments in hard stone have been carefully continued.

The remounting and repair of the Sekhet statues in the Northern Egyptian Gallery have been completed.

Ninety-eight Caen stone plinths and pedestals have been worked and prepared; fourteen granite plinths and facings have been fitted and fixed; one hundred and twenty-six white alabaster plinths have been prepared and polished, and bronze figures of gods, pendants, amulets, etc., have been mounted upon them; six hundred and fifty-two plaques, plinths, pedestal, mounts of various kinds, stands for vases, etc., have been made, and objects mounted on them.

The Collections in the Wall-Cases and Standard Cases in the Fourth Egyptian Room have been removed temporarily to allow the cases to be rebuilt in their former positions, and the work of rebuilding has begun. A papyrus frame has been made.

Forty-two wooden labels have been prepared, painted and fixed, and two hundred and forty pin numbers have been fixed; two boxes for students have been made.

Thirteen stelæ frames have been made and stelæ fixed in them; seven of these stelæ were repaired and washed. Three hundred and seventy-five numbers have been attached to mounted objects.

One mummy case has been carefully cleaned, and fifty-seven miscellaneous objects have been repaired.

978 scarabs, plaques, amulets, etc., have been mounted on cloth-covered plinths. This number includes the scarabs which were removed from their plinths for casting purposes and were remounted.

532 labels have been drafted and painted, and numbers have been painted on 2,978 objects.

1,065 casts of scarabs for photographic purposes have been made, and fastened in groups to cardboard.

About 1,850 printed impressions of scarabs have been attached to catalogue slips for the printer.

The Greenfield papyrus has been unrolled, laid down on paper, and cut into lengths and mounted.

About 919 miscellaneous objects have been registered or re-registered, and about 724 objects, from which the numbers had disappeared, have been identified, re-numbered, and noted in the Registers. 2,184 slips of Register Numbers have been written.

The Murch Collection has been carefully examined, and checked with the lists, packed in boxes and despatched to America.

Works in Progress.

1. *Papyri.*—The translation of a Book of Moral Precepts has been begun, and 35 collotype plates have been printed off. Descriptions of papyri have been written and printed.

2. *Coptic MSS.*—The copying of two MSS. has been completed, and the copies collated for publication.

3. *Catalogue of Scarabs.*—Catalogue slips for 837 scarabs have been written, and about 3,000 slips have been revised. The printing of the Catalogue has begun, and four sheets are in type. A slip list has been made.

4. *Egyptian Texts.*—56 plates have been prepared and printed off, and the Introduction to Part I. is in type. 35 stelæ have been copied for Part II.

ASSYRIAN ANTIQUITIES :—

The general re-arrangement of the unexhibited section of the Babylonian and Assyrian Collections has been continued, and the cleaning of the bas-reliefs has been continued.

Several of the large royal Memorial Tablets have been repaired and remounted on granite.

The cases in the Nimrûd Gallery have been cleaned, and their contents repaired where necessary. The cases containing the "Daily Telegraph," Kuyunjik and other Collections, arranged temporarily in the Basement, have been numbered. Sixteen boxes for negatives have been made.

About 312 tablets have been cleaned and repaired, and a number of "case-tablets" have been opened; the boxing of the collection has been continued; casts of 13 seal-cylinders have been made and mounted with their casts on blocks; 13 fragments of tablets have been rejoined; 83 engraved gems have been mounted; and 1,586 registration numbers have been painted on objects.

About 253 tablets, seal-cylinders, etc., have been registered, and a slip Index to Parts 26–29 of Cuneiform Texts has been prepared.

196 tablets and fragments have been copied; 2 Boundary Stones have been copied; and many copies of texts have been collated, and a large number of fragments have been examined with a view to publication.

Works in Progress.

1. *Babylonian Boundary Stones.*—About 106 plates of texts have been translated and transliterated. Six additional plates have been prepared.

2. *Cuneiform Texts.*—A number of Omen Texts have been copied and collated with a view to publication in "Cuneiform Texts," and a number of Old Babylonian Letters have also been examined and copied.

Publications.

1. "Egyptian Hieratic Papyri," with descriptions, translations, etc.
2. "Coptic Homilies in the Dialect of Upper Egypt."
3. "Cuneiform Inscriptions in Western Asia," Vol. V. Reprint.
4. "Cuneiform Texts" (Creation Series), Part XIII. Reprint.
5. "Cuneiform Texts" (Omen Series). Parts XXVII. and XXVIII.
6. "Cuneiform Texts" (Old Babylonian Letters, etc.). Part XXIX.

Students.—About 3,020 visits have been made to the Department by students and others; and 13,980 objects have been issued for use by students.

Personally conducted Parties.—Fifty-eight parties have been personally conducted through the Department by members of the staff, the number of persons being about 1,268, including pupil-teachers and others from schools.

II.—*Acquisitions.*

i.—EGYPTIAN:—

i.—1. A fine foundation deposit brick in blue glazed porcelain. On each side are the royal names and prenomens of Rameses II., King of Egypt, about 1330, and round the sides run the king's titles or "strong names." This is the largest and finest brick of the kind hitherto discovered. From the temple of Rameses II. at Bubastis. XIXth dynasty.

2. A small brick from the same deposit and place inscribed with a text which states that the temple was built for Rameses II. by one of his sons, called Khā-em-Uast, the famous magician, whose statue is already in the Museum (Southern Egyptian Gallery, No. 615). XIXth dynasty.

3. A large and very fine granite table of offerings and altar, which was made for Nes-Ptah, a tribal prince and "Hā" or "Chief," and fourth prophet of Amen-Rā at Thebes, and was dedicated by him to this god. The table of offerings is attached to a solid block of granite, and the monument thus becomes an altar, of the kind of which very few examples are known. No other specimen exists in the British Museum. XVIIIth or XIXth dynasty.

4. A bronze beard from a statue, or decorated mummy, inlaid with blue and orange opaque glass. XXIInd dynasty.

ii.—1. Rectangular limestone slab from the tomb of the high official of Memphis, Benu-sen, sculptured with figures of the deceased and his family. Traces of colour still remain in the hieroglyphics. The formula is unusual, and resembles that of the tombs at Aswân. From Sakkārah. Vth or VIth dynasty.

2. Sepulchral monument, with two seated figures, of a priest and his wife. From Memphis. XIXth dynasty.

3. Rectangular limestone libation tank inscribed with a dedication on behalf of the artizan Sebu. IVth or Vth dynasty.

4. Rectangular limestone libation tank inscribed with a prayer for offerings on behalf of a scribe and superintendent of the priests of the Ka, or "double." IVth or Vth dynasty.

5. Upper portion of a stone coffin of a man, with wig, and the figure of a vulture over the brow. Good work. Style unusual. XIXth dynasty.

6. Sepulchral stele of John, a monk.

7. Sepulchral stele recording the deaths of Isaac, Colluthus, and Djol, and other monks.

8. Sepulchral stele recording the deaths of Apa Hermanō and other monks.

9. Painted sepulchral stele of a nun.

10. Painted sepulchral stele recording the deaths of Phoibammōn and other monks.

11. Sepulchral stele recording the deaths of Sarapion and Apollo, and other monks.

12. Sepulchral stele of a monk.

Nos. 6–12 form a very interesting group of Coptic sepulchral stelæ, all of which are inscribed in the dialect of Upper Egypt. A few of the

monks can be identified. The spellings of many names are unusual. From Upper Egypt. VIIth to IXth century A.D.

13. Upper portion of a stone shrine from a church in Upper Egypt, dedicated to Saints Michael and Gabriel. On the edge is a leaf-design in relief. IXth century A.D.

14. Memorial slab of Apa Taho and his brethren, with leaf-design, a Coptic cross, and rosette. IXth or Xth century.

15. Sepulchral stele, with rounded top, on which is sculptured the figure of a woman. Inscribed in Greek and Demotic. Græco-Roman Period.

16. Sepulchral stele, sculptured with the figure of a man wearing Roman dress. Roman Period.

17. Small Apis Bull stele. From the Serapeum at Sakkārah. Ptolemaïc Period (?).

18. Marble slab inscribed with magical Gnostic characters and symbols, and the seven vowels arranged in the form of an inverted triangle. This object was used as an amulet for a house. Early Christian Period.

19. Rectangular board, inscribed with a funerary (?) text; it was probably used as a tombstone. Period uncertain.

20, 21. Two blue glazed porcelain arms and hands which were probably laid on the dead as amulets. XXVIth dynasty.

22. Portion of a porcelain *ānkh*, or cross. Late Period.

23. Bronze kneeling figure of a priest, with inscribed plinth. Very fine work. XXVIth dynasty.

24. Bronze figure of the Goddess Neith, with silver eyes inlaid. Very fine work. XXVIth dynasty.

25. Bronze figure of Bast, holding a figure of her son Nefer-Temu, and wearing an ægis. Probably unique. Very fine work. XXVIth dynasty.

26. Bronze figure of an animal, with raised tail. Probably unique. XXIInd dynasty.

27, 28. Two large wooden plasterers' tools. Late Period.

29, 30. Two wooden pillars from a sepulchral chest. Late Period.

iii.—1. Stone ushabti figure of Ptah-nefer-her, inscribed with the "Suten tā" formula instead of the version of the VIth Chapter of the Book of the Dead which is usually found on such figures. XXIInd dynasty.

2, 3. Two fine green porcelain ushabtiu figures, with whip, hoe, and socket. XXVIth dynasty.

4. A small green ushabti figure, which was cast in a mould. XXVIth dynasty, or later.

5, 6. Two blue glazed ushabtiu figures, on which is cut a version of the VIth Chapter of the Book of the Dead. Very fine colour. XXVIth dynasty.

iv.—1. Wooden case for a mummied ibis, made in the form of the bird, with bronze head and claws. XXIInd dynasty.

v.—1. A bronze serpent, probably intended to represent the species of serpent which was sacred to the goddess Mer-Sekert. From Thebes (?). XXth–XXIInd dynasty.

vi.—1. Massive stone sarcophagus of Qem-Ptah, a man of very high rank who filled several offices, both ecclesiastical and civil, at Memphis, and flourished about the middle of the Ptolemaïc Period, B.C. 200. The cover is inscribed with a series of religious texts and prayers which are based on certain Chapters of the Book of the Dead. The inside of the sarcophagus is decorated with figures of all the gods which were regarded as gods of the dead at that period, and with figures of several of the Thirty-Six (or, Thirty-Nine) Dekans. These are arranged in panels, and by the side of each god is a short text which explains his duties in connection with the dead.

The whole of the outside is occupied with the scenes and texts of the famous Guide to the Other World, which the Egyptians called "Am-Tuat." This Book is based upon ancient works, such as the "Book of the Two Ways," and contains ideas and beliefs which are as old as the earliest dynasties.

According to these the Other World was divided into ten portions, which originally represented the underworlds of Heliopolis, Kher Aha, Bubastis, Saïs, Memphis, Busiris, Herakleopolis, Abydos, Thebes, etc. At each end of the group was a vestibule, which communicated directly with this world. The Book "Am-Tuat" was intended to make the spirits of the dead acquainted with the various regions through which they had to pass, and to supply them with pictures of the beings which dwelt in them, and generally to guide them to the Fields of Peace. It taught that the righteous were rewarded by Osiris, and that the wicked were slaughtered by his executioner Shesmu, who hacked their bodies in pieces and cast them into pits of fire.

This sarcophagus contains many sections of the Book "Am-Tuat" which are not found on the sarcophagus of king Nekht-neb-f which is exhibited near it. From Sakkārah. Ptolemaïc Period.

ii.—ASSYRIAN :—

i.—1. A fine series of 73 nearly complete, well preserved letters of the period of the First Dynasty of Babylon. These letters are of special importance for the study of the grammar of the Old Babylonian language, and for the light which they throw on the social condition of the period. About B.C. 2000.

2. Fourteen fragments of similar letters, which the Arabs have attempted to make up into whole tablets.

3. Thirty-seven contracts, account-lists, commercial tablets, and memorandum tablets, some of which are dated in the reigns of Samsu-iluna and Ammiditana. All are of fair size, and belong to the period of the First Dynasty of Babylon. About B.C. 2000.

4. Eleven smaller tablets of the same class and period.

5. Eight small tablets inscribed with texts of a commercial character, of the period of the Dynasty of Ur. About B.C. 2400.

6. Fragment of a stone tablet recording the sale of an estate situated on the bank of the Takhiru canal, in the neighbourhood of Babylon or Sippar. On the obverse is preserved part of a plan of the estate showing the canal bounding the property on its western side. About B.C. 900.

7. A contract tablet of the Kassite period. About B.C. 1500.

8. Three contract tablets of the Neo-Babylonian Period ; one of these is dated in the reign of Darius.

9. Fragment of a cylinder inscribed with the Annals of Sennacherib giving a list of the Gates of Nineveh in somewhat different order from that found on the cylinder recently purchased by the Trustees (No. 103,000). From Nineveh. About B.C. 700.

10. Twenty-two fragments of a cylinder, or cylinders, inscribed with the Annals of Sennacherib. One of the fragments appears to belong to a cylinder which was made B.C. 698.

ii.—1. Green stone cylinder-seal on which is cut a scene representing a priest or worshipper standing before the water-god Ea. Fish are seen in the water flowing from the god's vase. Under the feet of the god is the Goat-fish, or Capricornus. This early appearance of Capricornus is of considerable interest. Sumerian Period. About B.C. 2300.

2. Green stone cylinder-seal on which is cut a scene representing a goddess leading a worshipper into the presence of the Moon-god. Sumerian Period.

3. Seal of Idgida, the son of Ur-gu. The scene represents Gilgamesh and Eabani in conflict with lions. Late Sumerian Period.

4. Seal engraved with a mythological scene representing a battle of the gods; from the body of one of these (Sun-god?) flames ascend. Early Period.

5. Black stone cylinder-seal engraved with several emblems, among them being Capricornus, the Goat-fish.

6. Hæmatite cylinder-seal of Apilshunu, the son Zangilum, the servant of the god Martu.

7. Hæmatite cylinder-seal of Nannar-iddina, the son of Ibni-Shamash, the servant of the Moon-god. On it is cut a scene of adoration.

8. Hæmatite cylinder-seal of Ibik-Ishtar, engraved with a scene representing him offering a kid to the Sun-god.

9, 10. Two hæmatite cylinders engraved with figures of gods and scenes of worship.

11. Lapis-lazuli cylinder-seal engraved, in two registers, with scenes representing heroes in conflict with lions and ibexes, and with figures of an eagle, two ibexes, and the gate of a shrine.

12, 13. Two seals engraved with scenes representing the worship of the crescent moon, and with figures of a sacred tree, a winged disk, and other religious emblems. Persian (Achæmenian) Period.

14. Small figure of a bird in steatite, chamfered flat at the back and perforated for suspension.

15. A gold figure of a Babylonian king or priest standing in prayer. From Susa. B.C. 2000.

16. An inscribed clay amulet. The smallest known.

17. A bronze bull-lamp. From Northern Babylonia.

18–22. A group of small terra-cotta reliefs on which are represented:

An early Babylonian god, wearing a conical horned headdress.

A mythological being, in the form of Eabani, holding a standard.

A nude goddess, with a babe at her breast. A broken stamped plaque, and a mould for figures of an early Babylonian goddess Ninni are included in this group.

iii.—HIMYARITIC:—

A collection of nine inscriptions, in bold letters, cut in limestone, of a votive character, which illustrate the ceremonies that were performed at the dedication of temples, fortresses, wells, etc. They were obtained from various sites in the Hinterland of Aden, which are far from ordinary trade-routes, and exhibit local peculiarities of spelling, etc. About B.C. 1000—700.

III.—*Presents.*

1. A large, handsome roll of papyrus inscribed with a series of the compositions, *i.e.*, spells, prayers, hymns, etc., which form the Chapters of the great funerary work of the Egyptians called "Per-em-hru," or the "Book of Coming Forth by Day," now generally known as the "Book of the Dead." The texts are written in the hieratic character, and the script is remarkable for its clearness and freedom from contractions. Like all hieratic papyri of the period, the copying of the papyrus was begun at the right-hand end, and not at the left, as is the case with hieroglyphic papyri. The Chapters are accompanied by Vignettes, which are beautifully drawn in black outline and are usually placed at the top of the text, as near to the Chapters to which they refer as possible. Some large Vignettes, *e.g.*, the Judgment Scene, are given in duplicate. The length of the papyrus is about 122 feet, and its width 1 ft. $8\frac{1}{2}$ in. It is the longest roll of the Book of the Dead hitherto discovered, and with the exception of the Harris Papyrus (No. 9900) is the longest papyrus known.

The papyrus was made for Princess Nestanebasher, the daughter of Nesi-Khensu, the wife of Painetchem II., a high priest king at Thebes, about B.C. 980, and was buried with her in her tomb. During the troubles which came upon Thebes soon after her death, her mummy, her papyrus, and all her funerary furniture were removed with the mummies of the kings and queens to a tomb at Dēr al-Bahari, where they remained hidden until they were discovered by the natives of Kurnah (Thebes) some time before 1870. The papyrus reflects the religious opinions

of the Priests of Amen-Rā, and the selection of Chapters, Litanies and Hymns, which it contains, represents the attempt which they made to fuse the cult of Amen with that of Osiris, and to make Amen, the personification of the "hidden" power in Nature, to be the overlord of Osiris in the Other World. From this point of view the papyrus is of unique interest. It contains copies of these Chapters of the Theban Recension of the Book of the Dead, in the following order: I., XVI., XV., XVII., XVIII., XXIV.–XXVI., XXVIII., XXVII., XXXVIII., XL., XXXVI., XXXVII., LVI., LXI., XXXB., XXXIX., XXVII., XXVIII., XI., II., IV., XLIII., LXI., VI., V., CV., CIII. (?), CIV., XCVI., XCVII., XCIV., CIII., XXXVI., LV., CXVII., CXVIII., XXI., CXX., CXXII., XXXI., X., XC., CXXXI., CII., XXXII., CXXXIV., XCiX., CVIII., CXII., CXIII., CVII., CVIII., CIX., CXIV., CXV., CXVI., LXXXI., LXXX., LXXXVII., LXXXIII., LXXVI., LIII., XCI., XLIV., XCIII., LB., CLXXXVIII., CXLI., CXLII., CXXIV., CXXV., XXVI., CXLVIII., CXLVII., CXLVI., CLXXIII., CXLV., CXLIX., CL., CXLVIII. Among the new texts which are specially connected with the cult of Amen may be mentioned a set of Addresses by Thoth, Fourteen Addresses to Rā, Four Praises of Rā, Hymn to the Forms of Rā, Hymns to Aten, a Series of Utennu, or invocations of Temu, Lists of the Forms of the Gods, and many prayers which were to be recited at intervals during the day and night.

Presented by Mrs. Mary Greenfield.

2.—1. Fragment of a crystal bowl with inscriptions of kings Semti and Nekht, the latter over an inscription of Merpeba.

2. Broken flint object of uncertain use and shape.

3. End of a flat alabaster vessel.

4–7. Four fragments of stone bowls.

8–12. Five fragments of large pots with incised inscriptions.

13. Fragment of blue glazed pottery.

Nos. 1–13 belong to the Ist dynasty.

14. A series of six pots, one vase, four cups, two vase stands, and three stoppers, in rough pottery ware. Ist and IInd dynasties.

15, 16. Portion of a stone bracelet and a flint flake. From the tomb of Perabsen. IInd dynasty.

17. Unbaked mud votive figure of Osiris, painted and with a bead necklace. XIXth–XXIInd dynasty.

18. A group of four pots and one large jar. XXIInd dynasty.
19. Part of a lip of a blue glass bottle. Uncertain Period.
20. Fragment of Roman pottery.
Nos. 1-20 are from Umm al-Qa'ab at Abydos.
21. A predynastic tomb-group, including a slate with grinding pebble, pieces of malachite and antimony for eye-paint, ivory pin, ivory scoop, obsidian flake, three flint flakes, limestone mace-head, carnelian and porcelain beads. Predynastic Period.
22. Marble peg. Predynastic Period.
23. Two vases (one painted). Predynastic Period.
24. Red ware vase.
25. Head rest.
26. Burnished ware, hole-spout vase and bowl.
Nos. 24-26 are of IVth-VIth dynasty.
27. A group of beads, amulets, and button-seals. From a burial of the VIth dynasty.
28. Ivory button-seal and toggle. VIth dynasty.
29. Rough alabaster cup. VIth dynasty.
30. Two red-ware vases. XIIth dynasty.
31. Stele of Senbi, with an early representation of Amen-Rā, god of Thebes. XIIth dynasty.
32. Stone ushabti of Rensenb. XIIIth dynasty.
33. Black vase, with incised and punctuated ornament, filled in with white. XIIIth dynasty.
34. A group of four bowls, three vases, one cup, four pots, one vase-stand, etc., in red ware.
35. "Blind" vase in red ware, with both ends closed.
36. Red and black pot of "predynastic" type.
37. Alabaster stibium pot, with porcelain lid.
Nos. 34–37 are of the XVIIIth dynasty.
38. Piece of flint inscribed in hieratic. XXIst dynasty.
39. Three ostraka (one Demotic and two Greek). Roman Period.
40. Fragment of a blue and white glass cup. Roman Period.
Nos. 21-40 are from the Necropolis at Abydos.
41. Part of a pot used for the burial of an ibis, with inscription. XXth dynasty. From Shunat az-Zabîb.

42. Red ware vase. XIIth dynasty.
Drab ware vase. XIIth dynasty.
Wavy lipped cup. XIIth dynasty.
43. Blue, gilded cartonnage head-covering of mummy. Ptolemaïc Period.
44. Four ostraka (three Greek, one Demotic). Roman Period.

Nos. 42–44 are from Sedment.

45. A series of fragments of bows, arrows, staves, etc. XIth dynasty.
46. Bones and fragments of a skull.
47. A group of model vases, tools, etc. From the tomb of Menthu-hetep at Dêr al-Bahari.
48. Funerary Cone.
49. A group of Roman terra-cottas.
50. Ivory stylus.
51. Carved plaque.
52. Wooden comb.
53. Glass crocodile.
54. Two pieces of Coptic embroidery.
55. Five Greek and Coptic ostraka.

Nos. 48–55 are from Behnesa.
Presented by the Egypt Exploration Fund.

1. Three sandstone stelæ, with Meroïtic inscriptions.
2. A piece of a blue and black tile.
3. Two fragments of blue glazed, cross-hatched tiles. From the Temple of Amen.
4. Triple *atef* crown in blue glazed porcelain.
5. Two large bulbous gourd-shaped pots, hand-made.
6. Eight small pots in black or red ware.
7. Seven black burnished ware bowls.
8. One cup of the same material.
9. Four bowls in red burnished ware.
10. One cup of the same material.
11. Three burnished red ware vase stands, with white-painted geometric decoration.
12. Vase stand, of similar material, unpainted.
13. Red ware vase and bowl.
14. Stone celt.

All the above are of the Ptolemaïc or Roman Period. From Meröe.
Presented by H. Martyn Kennard, Esq.

1. Six predynastic vases, three of which are painted.
2. Slate object in the form of a fish.
3. Slate object in the form of an animal(?).
4. Flake of flint.
5. Nine horn bangles.
6. Bronze mirror, without a handle.

Presented by F. Legge, Esq.

1. Sepulchral limestone stele sculptured with a scene representing Anubis leading two deceased persons into the presence of Osiris, behind whom stands Isis. Below is an inscription of four lines in Demotic. Roman Period.

Presented by W. L. Nash, Esq., M.D. M.R.C.S. [Eng.].

1. Large two-handled jar.
2. Red bottle.

Presented by F. S. Phillips, Esq.

1. Limestone table for offerings, or altar, of an unusual design, made for Teta-ki. XIIth–XVIIth dynasty.

Presented by the Earl of Carnarvon.

1. Upper portion of a limestone obelisk, on each side of which is the symbol of the wind from one of the four cardinal points. From Saïs. Ptolemaïc Period.

Presented by E. Meyer, Esq.

1. Small shell panel engraved with the figures of an early Sumerian hero and an ibex.

Presented by G. H. Judd, Esq.

1–15. Fifteen fragments of tablets inscribed with texts in the Khatti language. From Boghaz-Keui. About B.C. 1300.

16, 17. Two flint hammer heads. From Boghaz-Keui.

18-20. Three stone implements. From Uzal.

Presented by R. Campbell Thompson, Esq.

1. Six brown and blue glazed scarabs, mounted in modern work.
2. Blue porcelain ushabti figure.
3. The left hand of a mummy.

Presented anonymously.

E. A. Wallis Budge.

Department of Greek and Roman Antiquities.

I.—*Arrangement.*

The Sculpture Galleries.—The remounting of the central group from the West Pediment of the Parthenon, designed and begun last year, has been completed; the torsos have been raised to their proper heights, in relation to the base line, on shafts of Istrian marble, the poses of the fragments have been restudied and corrected, and the figures are set on pivots so that they can be turned about their vertical axes. The figure hitherto known as Victory has been transferred from the East Pediment to its original place in this group. A colossal head of Athena, which is thought to represent a Pheidian type, has been moved from the Græco-Roman Gallery to a place in the Elgin Room.

In the Mausoleum Room Annexe steel stands have been fixed, on which a considerable number of the minor Greek and Roman reliefs are exhibited in a fair light. Examples of the Roman reliefs have been fixed on the walls of the Roman Gallery. A reconstruction of the order of the Nereid Monument is in progress.

The Vase Rooms and Upper Galleries.—The general rearrangement of the collection of vases has been continued. Cases in the First and Second Rooms have been refitted and repainted or recovered, and the kylikes in two table-cases in the Second Room have been remounted. In the Third Room the wall-cases have been refitted and the vases contained in them have been rearranged so as to give a better chronological sequence; the kylikes have also been rearranged, the finest being set up in standard cases so that both sides may be seen, and the rest mounted in the table-cases with mirrors to reflect the interior designs, which were previously concealed. Glass-topped drawers have been fitted in these galleries and in the Bronze Room and the Room of Greek and Roman Life for the exhibition of fragments of pottery, fibulæ, weights, and similar small objects. Broken panes of glass in the skylights and cases have been replaced, and the skylights have been cleaned. A rearrangement of the unexhibited antiquities is in progress. The central case of gems in the Gold Ornament Room has been raised to a more convenient height.

The publication of the Sculptures of the Parthenon, photogravure plates and text in folio, was completed. The Catalogue of Jewellery was printed and revised in proof. The Minoan, Mycenæan, and Cypriote sections of the first volume of the Catalogue of Vases were set up in type, and the manuscript of most of the remainder was prepared for press. Progress was made with the second part of Volume IV. of the Greek Inscriptions.

New moulds have been made of six slabs of the Frieze of the Parthenon, and of two marble heads. Twenty pieces of sculpture were mounted on stone pedestals; an ivory sistrum, 10 gems, 112 bronzes, 97 terra-cottas, and 87 vases were mounted on wooden stands; 410 objects were registered, 1,388 were numbered, and 241 labels were written.

The Departmental Library and Students' Room was repainted. The number of visits for purposes of research was 418, there were 1,056 other visits to the Staff for purposes of enquiry or departmental business, and 1,843 attendances of art students in the Sculpture Galleries.

II.—*Acquisitions.*

I.—*Sculpture in Stone and Marble.*

1. Marble relief: a gravestone with a group of three persons. A woman, Aristeis, standing, clasps the hand of another woman who is seated on a chair with footstool; between these two figures stands a bearded man looking to the front. The women are turned in profile though both heads are worked in the round. The stone is in good preservation, the lower right-hand corner being the only considerable piece that has been restored. The relief is bordered by lateral pilasters, surmounted by a low pediment with acroteria. On the architrave is an inscription: ΑΡΙΣΤΗΙΣ ΕΠΙΧΑΡΟΥΣ ⊙ΥΓΑΤΗΡ . . . . . ΓΥΝΗ.

Height 44 in., width 29 in. From Attica. Rather hasty work, but fresh and of good period (Fourth Century B.C.).

2. Fragment of marble relief: the top of a gravestone bearing the head of a girl. Fine style; the head, which is in profile, is slightly bowed; the hair is waved and is bound on the neck. Above is a low pediment, and on the central acroterion is a relief of a mourning Seiren. Inscribed ΚΛΕΑΡΕΤΗ.

Height 14½ in. width 17¼ in.

3. Marble Head of Pan. A small terminal bust, flat behind. The features and hair are worked in a fine free style; the beard falls in long tresses, and the head is crowned with a wreath of pine-cones. The ears are pointed; over the forehead are two goat's horns.

Height 7½ in. Græco-Roman work.

4. Limestone head of Dionysos, of colossal scale, with long hair, beard and drooping moustache. Over the forehead is tied a broad fillet, with bunches of ivy leaves. Shallow work, almost in relief; the back is cut off flat. The surface is much worn, and only the main lines of the modelling remain. A dignified piece of decorative work in a large style.

Height 34½ in. From Lefka in Cyprus.

5. A series of limestone figures from Tamassos in Cyprus, collected by the late Colonel Falkland Warren. These include four statuettes of men in Oriental costume, one of whom is carrying a calf; two statuettes of men wearing loincloths, and the upper part of a similar figure; the upper part of a statuette of a flute player; a horseman mounted on a horse of which the harness is very clearly represented; and two female heads crowned with leaves and berries. They are all of the early Cypriote style. With the same collection were acquired some terra-cottas of similar type; two large bearded heads of Assyrian style, and two without beards; the bust of a nude youth wearing a diadem; a nude woman wearing a nose ring; a small horse's head; and two four-horse chariots painted with stripes of red, yellow and black; in one chariot are two men, in the other three.

6. Stone stamp or seal in the form of a thick disc engraved in intaglio on both sides. *Obv:* Gryphon of Nemesis seated with paw raised on a wheel, and the legend **ΝΕΜΕΣΙΣ ΖΙΚΕΑ.** *Rev:* A draped female figure holding a cornucopia and a fillet; she stands on tiptoe and holds her skirts in the archaistic manner of Spes on the coins of Titus, but the style is barbarous; in the field are a branch and wreath, and inscription **ΕΧΩ ΕΛΠΙΔΑΣ ΚΑΛΑΣ.** The lettering belongs to the Roman Imperial period. Diameter 4½ in.

7. Marble head: apparently a modern portrait of Gaius Julius Cæsar. Life size. *Presented by G. N. Bankes, Esq.*

II.—*Ivory.*

8. Sistrum of unusual type: a semicircular bow with ends joined by a bronze rod on which are five ivory discs forming the rattle; the central disc is fixed, the others, which diminish in size from the centre, are loose. A long straight handle is attached to the middle of the bow. Each of the curved arms is flat in section, and is carved as a reeded shaft, terminating in a palm-leaf capital from which issues a lion's head; the heads face inwards and the bronze rod passes from mouth to mouth. The handle, which is round, ends in a similar capital and lion's head. Archaic Etruscan work. From Orvieto.

9. Fragment of relief with a figure of Ganymede among vine-branches.

From Behnesa (Oxyrhyncus); late Roman period. *Presented by the Egypt Exploration Fund.*

III.—*Gems.*

10. Chalcedony intaglio: the head of a bearded man of barbaric aspect, wearing a low pointed cap; apparently a portrait of an Oriental prince. Strong Greek work. Said to have been sent from Constantinople. Exhibited at the Burlington Fine Arts Club in 1903 (Catalogue, pl. 112, No. 136).

There is a replica of this gem (*Collection Tyszkiewicz*, pl. 24, fig. 12) which is more finished but less vigorous (*see* A. S. Murray in the *Quarterly Review*, vol. 194, p. 434.). Length 1 in. *Presented by Mrs. M. Zarifi.*

11. Agate lenticular intaglio with lioness seizing a deer; the landscape is indicated by a tree and wavy lines representing water. Mycenæan period. The size (diam. $1\frac{1}{2}$ in.) is remarkable.

IV.—*Silver.*

12. Statuette of a lion, apparently the handle of a seal. The beast is crouching with open jaws as if at bay. Fine modelling; bones strongly indicated. The mane and tip of tail are gilt. Early Greek work; in remarkable condition. Length $\frac{3}{4}$ in. From Argos.

13. Pin with head formed by a figure of Aphrodite, with arms raised, each hand holding a tress of hair. Drapery is held between the thighs, and passes behind over the left shoulder. Roman work.

V.—*Bronze.*

14. Relief from mirror-case. Dionysos and Ariadne seated on a rock; Ariadne caresses a panther, Dionysos holds a thyrsos. Below, in the space between the feet of the pair, sits a small shaggy Papposeilenos holding a bunch of grapes. Greek work, Fourth Century B.C.

Formerly in the Somzée Collection. Furtwaengler, *Sammlung Somzée*, pl. XXXVI., 93.

15. Relief from mirror-case. A young warrior steps back, dragging in his left arm and sheltering with his shield a wounded comrade; behind the shield an attacking figure strikes backwards with a sword at the two. All three men are nude. Very fine vigorous style, but mutilated. From Ætolia.

16. Relief from mirror-case. Victory driving a two-horse chariot. The horses and car are curiously drawn in perspective.

17. Statuette of Aphrodite. The goddess stands with feet set close together; the left hand is raised, and may be supposed to have held a mirror, towards which the eyes were directed; the head is slightly inclined to one side and looks downwards. The drapery, supported in front of the thighs by the right hand, passes across the back and hangs in a short loop over the left shoulder. The navel is gilded. Fine style, rather heavy forms.

Height $10\frac{3}{4}$ in. Said to have been sent from Constantinople. *Presented by Mrs. M. Zarifi.*

18. Statuette of a deer, probably Græco-Iberian of early date. The modelling is crude, with elongated proportions; the length of the ears is especially exaggerated. Height 12 in. From Spain.

19. Foot of a vase terminating below in a lion's paw and above in a bust of a beardless Heracles issuing from a floral calix; he holds in the left arm a knotted club, his right hand is raised to his head. Height 4 in. Græco-Roman work.

20. (*a*) Statuette of an ox, of primitive Italian style. Height 4 in. (*b*) Small ladle: the handle terminates in a cup which is perforated as a strainer. Height 4½ in. (*c*) Fibula, heavy leech type with long foot on which is a movable ring to secure the clasp. (*d*) Fibula, thin leech type with coils at ends, ornamented with moulded rings. (*e*) Fibula, horned serpentine type.

Formerly in the Hasselmann Collection. *Kunstbesitz eines norddeutschen Sammlers* (Muenchen, 1910), Nos. 638 (pl. 13), 35 (pl. 10), 316, 326 (?), 330.

21. Fibula, leech type with engraved geometric decoration.

22 Fibula, a development of the Latène type. The foot rises vertically and ends in a heavy square knob, which is ornamented with fine dotted designs; the bow is deeply ribbed.

A Spanish type: *see* Paris, *L'Art de l'Espagne primitive*, II., p. 266, fig. 396–399.

23. Pestle in the shape of a leg. *Presented by R. H. Benson, Esq.*

VI.—*Iron and Lead.*

24. Iron finger-ring: intaglio design of an athlete binding his head with a fillet (*Diadumenos*) beside a laver. *Presented by W. R. Hubbard, Esq.*

25. Lead weight: 10,863 grains. Relief design of two crossed cornucopias and the legend **ΕΤΟΥΣ ΔΛΣ ΔΗΜΟΣΙΑ ΜΝΑ**. The date is probably 78 B.C., by the Seleucid era.

26. Lead seal or stamp with inscription **ΙΕΡΑ**. *Presented by J. B. Caldecott, Esq.*

VII.—*Wood, etc.*

27. Two wooden toilet-boxes, turned on the lathe. Found in a Roman tomb in Bulgaria.

28. (*a*) Turned wooden fragment, part of a chair or similar piece of furniture, excavated at Behnesa. (*b*) Reed pen, from Behnesa. (*c*) Brush, wooden back with bristles of grass. From Sedment el Gebel. (*d*) Sewn leather case containing bronze tweezers, awl and knife hung together on a chain; probably a set of instruments for trimming lamps. From Sedment el Gebel.

Presented by the Committee of the Egypt Exploration Fund.

VIII. *Terra-cotta, etc.*

29. Statuette of a youth wearing chiton, cuirass, chlamys, cap and laced sandals.

30. Two primitive Bœotian figures from Lake Copais. One has the face modelled in the archaic style and wears a high calathos with wreath and earrings; in the other the features are crudely indicated. On the forehead of each is a large curl; the bodies are flat and painted with geometrical patterns.

31. A dog carrying a hare in his mouth, and a grasshopper: both roughly modelled toys. *Presented by M. Costis A. Lembessis.*

32. (*a*) Head from the handle of a brazier, painted white, yellow and red. Excavated at Behnesa. (*b*) Model of a lantern: cylindrical shape with an arched opening for the light and slits for ventilation. Excavated at Sedment el Gebel. (*c*) Plaster jar-sealing stamped **ΙΤΑΛΟΥ**. From Sedment el Gebel.

Presented by the Committee of the Egypt Exploration Fund.

33. Two inscribed clay tablets from the Minoan Palace at Knossos. *Presented by Dr. A. J. Evans, F.R.S.*

One has three lines of characters and is probably an inventory of cereal crops: a certain sign, which appears several times in conjunction with numerals, being taken to mean corn.

The other is inscribed in two rows; the characters are mostly numerals. It is apparently a reckoning by centuries:— 20 is added to 72 and the deficiency 8 from the complete century is noted.

The shape of the tablets is roughly oblong. The lettering is described by Dr. Evans as Class B of the Linear Script.

34. Plaster casts of two Minoan vases from Hagia Triada, known as the Boxer Vase and the Chieftain Cup (Burrows, *Discoveries in Crete*, p. 34, pl. I.; p. 38), and of a clay disc inscribed with pictographic characters, found in the Palace at Phaistos (Evans, *Scripta Minoa*, pp. 22, 273). *Presented by Professor R. C. Bosanquet.*

IX.—*Pottery.*

35. Two pieces of Cretan ware: a shallow cup painted with a stippled pattern, and a fragment with design of four-petalled flowers reserved. Late Minoan II. period.

From the Palace at Knossos. *Presented by Dr. A. J. Evans, F.R.S.*

36. Two Geometric kylikes: flat bowls on hollow cylindrical stands which are divided by vertical slits into two rows of panels. The decoration consists of linear designs and animal figures: two Gryphons guarding a sacred tree, birds, horses, Centaurs, deer, and other creatures.

37. Flat bowl with Geometric linear patterns.

38. Geometric pyxis, the body decorated with fringed wheels in square panels, the lid surmounted by four statuettes of horses. Diameter 14 in.

39. Two Geometric lids, conical shape with linear patterns, and a lid of similar form in the Phaleron style, painted with a frieze of goats.

40. Cantharos in the Bœotian Geometric style. Very fine thin fabric; hemispherical body with high flat handles. On one side are a man and three dogs hunting a boar or other large quadruped; on the other, two men with sword and spear, in panels framed by zig-zags, etc. From Thebes.

41. Lekythos, black-figure on white ground. The subject represented is the capture of Seilenos at the fountain Inna for Midas king of Phrygia. Seilenos is lying down, drinking the wine from the fountain, which is built between two trees; on its roof kneels a man who carries a cord to bind Seilenos when captured. On either side is a man holding a sceptre and seated on a throne: one is distinguished by the name Midas (**ΜΙΔΕΣ**); other inscriptions are illegible. From Sicily. *Presented by Edwin Barclay, Esq.*

42. Lekythos, black-figure on white ground. The design consists of a young warrior advancing with levelled spear. The armour and drapery are drawn in outline, the face and nude limbs in silhouette. From Thebes.

43. Two Lekythoi painted in red and white on black with outlines and details incised.

i.—Eos bearing the body of Memnon.

ii.—A mænad dancing, her sleeves extended like wings; over her chiton is tied a fawn-skin, and her hair is bound with snakes. In front of her is a fox; behind, a thyrsos.

The flesh of the women and some details of dress and ornament are painted white; the body of Memnon, thyrsos and fox are red; the draperies are heavily incised.

44. Alabastron, black outline drawing on white ground: a girl, draped in a long chiton, playing the flutes; a youth, with chlamys on extended left arm, throwing an oil-bottle (*aryballos*). Between them on one side is a flute-case; on the other, the legend **Ο ΠΑΙΣ ΚΑΛΟΣ**. The two may be supposed to be excerpted from a larger group representing a revel. The drawing is somewhat in the style of Euphronios (compare Hartwig, *Meisterschalen*, plate XLIX.).

45. Pelike, late Attic red-figure style. The obverse subject is a musical contest between two flute-players, who are clad in long embroidered robes; one stands on a platform of two steps, the other has his foot on the lower plinth as if in the act of ascending. A Victory flies towards the group from either side, one carrying two bowls, the other a long white fillet. In the field are inscriptions, **ΚΑΛΟΣ**, **ΚΑΛΗ**. On the reverse, three draped youths.

46. Oinochoe, red-figure with white paint. Two Victories, drawn in white colour, fly towards a tripod with fillets in their

hands; the tripod stands on a double base on which is inscribed **ΔΓΗΕΜΕΛΟΣ ΑΡΙΡΙΛΟΣ ΤΟΣ ΘΙΛΟΣ** (*Ἀγαθήμερος Ἀρίφιλος τοὺς φίλους* or the like). From near the Olympieion, Athens.

47. Oinochoe, Attic red-figure style. In a panel, a woman seated at a low table on which are dishes; on the other side of the table stands a boy holding a cup.

48. Oinochoe, as last: a baby seated in a high turret-like chair, his legs protruding (*cf.* Frœhner, *van Branteghem Coll.*, pl. 38); he holds a toy; on the floor are a miniature oinochoe and a hobby-horse.

49. Oinochoe, as before: two boys dragging a go-cart in which rides a third child, driving the others with a stick.

Nos. 48 and 49 are from Attica.

50. Lekythos with figure of a boy modelled in terra-cotta and painted with a thick lustrous slip or enamel. He holds an oinochoe in his right hand, a flower in his left, and is surrounded by flowers. From Eretria.

51. Loutrophoros, of Attic red-figure ware, in miniature—evidently a toy. The designs are marriage scenes: *obv.* Eros flying towards a seated woman, while a girl on either side brings a casket; *rev.* bride and bridegroom joining hands. On the foot is a winged nymph flying with a casket in her hands towards a girl who runs away.

52. Crater, Bœotian red-figure style, of the Fourth Century. *Obv.* Athena driving a four-horse chariot; *rev.* Victory flying with a tray and wreath. Said to have been found in Eubœa.

53. Cypriote Geometric vase, red ware painted with circles in black. Globular body with strainer in spout and funnel under the base.

From the collection of Colonel Falkland Warren (*see* No. 5 above).

54. A collection of eight Italian vases from various sites. *Presented by R. Sneade Brown, Esq.*

55. Bowl, Gaulish red ware decorated with stamped designs: panels and medallions containing animals and a boy with birds, and floral patterns. For the type of the fowler *cf.* Déchelette, *Vases de la Gaule romaine*, II., p. 93, No. 563.

56. Five bowls from Cologne, Roman red ware, some of them bearing potters' stamps: **ABVSFE, LRPIS, FELICI · OF.** *Presented by the Library Committee of the Corporation of the City of London.*

A. H. Smith.

Department of British and Mediæval Antiquities and Ethnography.

I.—*Arrangement, Cataloguing, etc.*

Prehistoric Section.—A series from the Belgian caves has been arranged and labelled, to be exhibited in drawers accessible to the public in this room; and the drawers of three table-cases cleared for re-construction. In the south wing several large dishes of the Hallstatt period have been placed in glazed cases. The labelling of the Greenwell Collection has been continued.

Romano-British Section. — The collection exhibited in drawers has been periodically overhauled.

Mediæval Room.—Permanent labels have been provided for the Limoges and other painted enamels; and several cases have been cleaned.

Gold Ornament Room.—The Franks Collection of cups has been permanently labelled, and the cases cleaned.

Glass and Ceramic Room.—Cases have been cleared and a new standard case and screens provided for the Falcke Collection of Wedgwood ware which has been arranged and permanently labelled. The Dutch and German glass has been re-arranged.

Asiatic Saloon.—Several sections of Chinese pottery and three standard cases have been cleaned and re-arranged; and the Brooke Collection of Chinese pottery from Szechuan exhibited in wall-cases 92, 93. A large frame of embroidery from Turkestan (Stein Collection) has been exhibited in cases 98–100 which have been cleared for the purpose.

Gallery of Religions.—The Buddhist room has been closed during the year owing to alterations in connection with the new buildings; and the Gandhara sculptures have been twice moved.

Ethnographical Gallery. — The north-west and Arctic American sections have been cleaned and re-arranged with new labels in wall-cases 68–83; and five table-cases re-arranged in the same section. In the Oceanic section the Torres Straits Collection has been overhauled and the case cleaned; and two standard cases have been cleared for alteration of locks. In the African section, the Congo textiles have been sorted and stored; the standard-case Q has been re-arranged with new fittings; and case T containing Benin ivories has been re-arranged with permanent labels. In the Asiatic section an exhibition of composite bows has been arranged with explanatory sections. The glass throughout the Gallery has been cleaned inside, and four sets of drawers accessible to the public arranged for exhibition.

American Room.—Three wall-cases and one standard-case have been cleared for the exhibition of the Van den Bergh

collection of Peruvian pottery; and sculptures removed from above the wall-cases for structural alterations.

Registration, etc.—The registration of current acquisitions has been continued, and 2,815 objects have been added, including ethnographical specimens.

Photographs to the number of 107 have been taken in the Department for purposes of illustration and reference, 9 lantern-slides made, and 32 extra prints prepared. Typewritten labels to the number of 623 have been cut and bordered, and 14 labels and 158 wood-blocks printed on the hand-press; 16 boards papered, and 318 objects mounted. There have been prepared 452 blocks, labels, frames, plinths and miscellaneous fittings.

A number of ethnographical, archæological and ceramic documents and pamphlets have been sorted and catalogued, and seal-electrotypes arranged and labelled. A collection from lake-dwellings in Yorkshire and a selection from the London Missionary Society's Collection have been packed and transferred to the Museum.

Registration numbers have been painted on 4,508 specimens, and 652 permanent labels written.

Publications.—The second edition of the Ceramic Guide was published in March and the Ethnographical Handbook in April. The slip catalogue of Oriental wares has been brought up to date; and progress has been made with a catalogue of rings, the plates and drawings being in preparation. The Stone Age Guide has been revised, and a second edition sent to press. A slip catalogue of the Stein Collection of pottery and stone implements from Turkestan has been prepared.

Students. — Three thousand six hundred and sixty-five students and visitors have been received in the Department. Three parties have been conducted through the Ethnographical and Anglo-Saxon galleries by members of the staff, and the York meeting of the Museums Association was attended.

II.—*Acquisitions.*

(1.) *Prehistoric and Early British Antiquities:*—

(a.) *Stone Age.*—Palæolithic implements found at Kennet, near Newmarket. *Presented by C. R. Jennings, Esq.*

Replaced flint flakes, found in North Cray gravel pit, Kent. *Presented by Arnold B. Vansittart, Esq.*

Series of worked flints from a raised beach at Larne, described in *Man*, 1909, no. 54. *Presented by Miss Layard.*

Specimens of striated and doubly patinated neolithic flints found at Icklingham, Suffolk. *Presented by Dr. Allen Sturge.*

A large series of neolithic flint arrow-heads, scrapers and implement from a small area in Oxfordshire.

Flint knife found near Sittingbourne. *Presented by S. Clinch, Esq.*

Worked flakes found near Bridlington, E.R. Yorks. *Presented by Miss Lee (John Edward Lee Collection).*

Flint arrow-head and stone implement found near Alfriston, Sussex.

Hammer of deer-antler with one end decorated with a lozenge pattern, from the Thames at Teddington.

Flint scrapers, arrow-heads and flakes from various sites in England. *Presented by the Library Committee of the City of London.*

(b.) *Bronze Age.*—Bronze palstave found with others in gravel, Union Field, Leytonstone. *Presented by the Council of the Linnean Society.*

Bronze socketed gouge found at Alfriston, Sussex.

Bronze torc and socketed spear-head found in the Thames near Battersea.

Two Irish "food-vessels" of the Bronze Age, and a rapier-blade from the Isle of Ely. *Presented by the Library Committee of the City of London.*

(c.) *Early Iron Age.*—Bronze bridle-bit, once enamelled, found in London.

Part of an enamelled "terret," found at Weston-under-Penyard, Herefordshire. *Presented by Dr. C. H. Read, P.S.A.*

Cinerary urn found in the Alkham valley near Dover. *Presented by Messrs. G. and A. Clark, Ltd.*

Urn found in a pit-dwelling near Chichester. *Presented by Mrs. Heron-Allen.*

Iron spear-head with central groove, from the Thames at Old Windsor.

(d.) *Foreign.*—Flint implements from the Swiss Lake-dwellings at Robenhausen, Cortaillod, Estavayer, Wangen, Schaffis (Chavannes), and Corcelette; also from the Thayingen cavern at Schaffhausen, and neolithic sites at Spiennes and Hastedon-lez-Namur, Belgium. *Presented by Miss Lee (John Edward Lee Collection).*

Quartz flakes from a cave at Broken Hill, N.E. Rhodesia. *Presented by T. Codrington, Esq.*

Flints from the gravels of the Zambesi. *Collected and presented by G. W. Lamplugh, Esq.*

Bronze spear-head $3\frac{1}{2}$ ft. long from Beth Dagin, near Gaza, Palestine.

Fragments of large pottery vessels from a cave in the Ronda Mts., Spain. *Presented by Col. Willoughby Verner.*

Early Anatolian jug from the district of Nigdeh, Cappadocia. *Presented by F. W. Hasluck, Esq.*

Remains of a mummy from a mastaba of late 3rd dynasty at Meydum, glazed pottery fragments, replaced flint flakes and a bracelet. *Presented by the British School of Archæology in Egypt.*

A series of bronze and iron specimens from graves in Eastern Siberia.

(2.) *Romano-British :—*

A marble group of Bacchus with panther, found in a grave with two swords at Spoonley Wood, near Winchcombe, Glouc s.

Roofing-tile with stamp of the 20th legion, found at Holt, Denbigh. *Presented by T. A. Acton, Esq.*

Gold ring with niccolo intaglio of Roma with Palladium, found at Colchester.

Bronze cheek-piece of a helmet, from the Thames at Kew.

Mortarium, found in Birchin Lane, City of London. *Presented by Dr. C. H. Read, P.S.A.*

Three red-ware dishes dredged from Pudding-pan Rock, Herne Bay, Kent. *Presented by the Library Committee of the City of London.*

Two leaden seals, with names and characters.

Two earthenware kiln-rests from Corbridge (Corstopitum), Northumberland. *Presented by Prof. Haverfield.*

Two bronze bracelets found in a pit at West Thurrock, Essex. *Presented by the Northfleet Coal and Ballast Co., Ltd.*

Stone coffin found at Old Ford Station. *Presented by the Directors of the North London Railway.*

(3.) *Anglo-Saxon and Foreign Teutonic :—*

Bronze brooches and glass beads found at Icklingham, Suffolk.

A "long" brooch of iron plated with silver and partly gilt, found at Hoxne, Suffolk ; illustrated in the *Proceedings of the Suffolk Institute of Archæology and Natural History,* vol. xiv. *Presented by Dr. C. W. Low.*

Glass cup found in a mound at Wheathampstead, with a bronze ewer already in the Museum ; figured in *Proceedings of the Society of Antiquaries of London,* xviii. 112. *Presented by Arthur Griffith, Esq.*

Brooches, finger-rings, toilet implements and other bronzes of the early Goths from Kertch, Crimea.

Gothic jewellery, brooches, buckles, weapons and a pendent cross, from graves in the Crimea and Caucasus.

A silver belt with garnet cell-work and a buckle embossed with a boar and eagle ; a jug, cup and four-limbed silver-gilt ornament, all from Sofia, Bulgaria.

A "long" brooch of bronze, from a grave-mound, Hardanger, Norway. *Presented by C. O. Skilbeck, Esq.*

Frankish vases with stamped ornament from Amiens and Oise, France.

A gold filigree ear-ring inlaid with garnets, Visigothic, ploughed up on the east coast of Italy. *Presented by C. Fairfax Murray, Esq.*

(4.) *Mediæval and Later* :—

(a.) *British.*—Woollen textile found in a bog at Bogtown, Kinnegad, co. Meath.

Leaden coffin-lid ornamented with a cross and rosettes, belonging to one of three coffins found in 1909 on the site of Torkington Priory, near Arundel, late 12th century. *Presented by the Duke of Norfolk, K.G.*

Matrices of seals of Peter Le Neve, Norroy King of Arms; and Euseby Cleaver, Bishop of Cork and Ross. *Presented by Max Rosenheim, Esq., F.S.A.*

Bronze weight with the arms of Richard, Duke of Cornwall, found at Clipstone, Northants.

Leaden ampulla for use by pilgrims, found at Bury St. Edmund's. *Presented by Dr. C. H. Read, P.S.A.*

Cover of a bronze censer, early 15th century.

Bronze ewer dating about 1400.

Two alabaster carvings of the early 15th century. *Presented through the National Art Collections Fund by Max Rosenheim, Esq., F.S.A.*

Stone mould for a heart-shaped brooch, found at Eriswell, Suffolk, 15th century. *Presented by Dr. Allen Sturge.*

A brass spoon-mould with bust of Queen Anne, found near Bideford. *Presented by T. Charbonnier, Esq.*

Bronze stirrup found at Framshall Park, near Stroud, Gloucs., 16th century, figured in *Proc. Soc. Antiq.*, xxii. 355. *Presented by Chas. Dawson, Esq., F.S.A.*

Gold finger-ring once enamelled, with figure of St. John, 15th century. *Presented by John C. Rose, Esq.*

A series of leaden cloth-marks, mostly of the 17th and 18th centuries. *Presented by J. B. Caldecott, Esq.*

An English repeating watch dated 1701.

Four gold serjeants' rings of the late 18th century.

Brass snuff-box with bust of Charles James Fox (d. 1806). *Presented by C. R. Jennings, Esq.*

Two cameos, mounted as pin and finger-ring. *Presented by H. C. Henderson, Esq.*

(b.) *Foreign* :—

A morse-ivory draughtsman of the 12th century. *Presented by M. Stora.*

Ivory carving of the 10th century, with the raising of Lazarus. *Presented through the National Art Collections Fund by Col. Fearon Tipping.*

Bronze water-jug with bearded head and lizard handle.

Six matrices of seals. *Presented by Max Rosenheim, Esq., F.S.A.*

Three seal-matrices. *Presented by Mrs. Way.*

Steel spit with nielloed handle, Italian, 15th century. *Presented by C. Fairfax Murray, Esq.*

Brass quill-pen cutter with original folding case, early 18th century.

Leather étui for knife, fork and spoon, obtained in Switzerland, 18th century. *Presented by A. W. F. Fuller, Esq.*

Two wooden carvings from Lamu, E. Africa Protectorate, probably Portuguese. *Presented by H. H. Horne, Esq.*

Two belts ornamented with niello and filigree from Daghestan.

(5.) *Ceramic and Glass Collections:—*

(a.) *Oriental Wares.*—Pottery funeral jar and figures of men and animals, glazed and coloured, early Chinese, probably of the T'ang dynasty. *Presented by G. Eumorfopoulos, Esq.*

Series of pottery vessels and figures of men and animals with traces of colour, from graves in Shansi of the Han and T'ang dynasties.

Inscribed earthenware tile of the Han dynasty. *Presented by J. S. T. Audley, Esq.*

White porcelain bowl and saucer in form of flower, of the Sung dynasty. *Presented by M. Henri Rollet.*

Figure of a lion in glazed pottery, Chinese, 16th century.

Two pottery head-rests, glazed, Ming dynasty.

Stoneware conical vase imitating a bell with an old inscription copied, dated 1812. *Presented by W. C. Alexander, Esq.*

Glazed pottery jar with lid, and incense-burner with turquoise glaze, Chinese. *Presented by J. A. Holms, Esq.*

Chinese porcelain plate with arms of Manning. *Presented by Herbert Salt, Esq.*

Three stoneware jars, Chinese porcelain punch-bowl, and Corean porcelain ewer.

Nine pieces of Corean pottery.

Porcelain dish decorated in gold and colours, Japanese (Kaga) ware. *Presented by H. Van den Bergh, Esq.*

Painted saucer-dish of Satsuma ware. *Presented by Henry Hadlow, Esq.*

Japanese bowl with dragon-skin glaze. *Presented through the National Art Collections Fund by Kenneth Dingwall, Esq.*

Ornamented bases of Persian bowls, 13th–14th century.

Ewer with turquoise glaze and bottle with landscape and figures in black and blue, Persian ware.

(b.) *Continental.*—Glazed pottery fragments of the 12th–13th century, from Volo and Constantinople. *Presented by W. S. George, Esq.*

Series of mezza-maiolica jugs, some with coats of arms, from Orvieto.

Specimens of the mosaic tesseræ used in the decoration of St. Mark's, Venice. *Presented by Sir Henry Howorth, K.C.I.E.*

Rhenish stoneware jug dated 1599, dredged up in the North Sea. *Presented by Col. A. J. Copeland.*

Cologne-ware tankard with figures of the Apostles, dated 1682 in later silver mount. *Presented by J. B. Carrington, Esq.*

Five groups of Meissen porcelain figures. *Presented by J. C. J. Drucker, Esq.*

(c.) *English.*—Mediæval moulded bricks from Pleshey Castle, Essex. *Presented by Col. Tufnell.*

Glazed pottery jugs found at Sutton Courtney Abbey, Abingdon. *Presented by Col. H. N. B. Good.*

Bowl of Worcester porcelain, about 1760. *Presented by C. B. Farmer, Esq.*

Dish of English delft.

Delft bowl with portrait of Wilkes (d. 1797).

Coffee-cup of Lowestoft porcelain. *Presented by Norman MacGregor, Esq.*

Plate of Staffordshire cream-ware with landscape and mark, E. WOOD. *Presented by A. E. Clarke, Esq.*

Cream-ware jug, printed and signed JOSH. JOHNSON, Liverpool. *Presented by Sir Henry Howorth, K.C.I.E.*

A number of clay pitcher-moulds for stamping cameos, marked TURNER and WEDGWOOD & BENTLEY. *Presented by Col. A. J. Copeland and Richard P. Copeland, Esq.*

(d.) *Glass.*—Roman dish from Cyprus. *Presented by the Library Committee of the City of London.*

Dish of the Roman period from Italy.

Long bottle from Palestine, Roman period.

Arab beakers found at Kertch, one inscribed, another containing coins of the 14th century.

Wine-bottle of the 17th century, a shield with three swans, from site of new County Hall, Westminster Bridge. *Presented by E. L. Gruning, Esq.*

Spout-pot about 1675, described in *Proc. Soc. Antiq.*, xxiii. 267. *Presented by Albert Hartshorne, Esq., F.S.A.*

Scent-bottle in form of negro's head, 18th century. *Presented by Lt.-Col. Croft Lyons, F.S.A.*

Jug of Nailsea mottled glass. *Presented by T. Charbonnier, Esq.*

A large block of aventurine glass made at Venice. *Presented by Comm. Salvatore Arbib.*

(6.) *Collection illustrating various Religions :—*

(a.) *Christianity.*—Two pottery lamps with palm-branch, birds and fishes, from Tyre.

Brass icon with figure of St. Nicholas and Russian inscription. *Presented by Mrs. Way.*

(b.) *Buddhism.*—Two wooden figures, gilt and lacquered, of a Japanese tutelary deity. *Presented by F. E. Warren, Esq.*

Bronze tablet on pedestal, with Buddhist figures in relief, dated A.D. 981; and Lamaistic prayer-wheel in model temple, brass incense-burner and copper trumpet with monster's head, all obtained by Chinese troops in Lhasa. *Presented through the National Art Collctions Fund by R. H. Benson, Esq.*

Seven Lamaistic pictures on rollers for temple decorations *Presented by Mrs. Gill.*

Bronze figure of a deity and other objects obtained in Tibet. Shrine containing "Shari." *Presented by Charles Lund, Esq.*

(7.) *Oriental and Ethnographical :—*

Asia.—Series illustrating the arts and industries of Korea, comprising specimens of iron and silver work, pottery, vessels in marble and stone, cabinets of wood and bamboo, a model house, a sword, bow and arrows, and two figures in Korean costume. This series formed part of the Korean exhibit at the Japan-British Exhibition in 1910. *Presented by the Imperial Cho-sen Government.*

Collection illustrating the ethnography of the primitive tribes of Formosa, including costumes, ornaments and weapons; also life-size figures in Chinese costume, and a series of photographs of Formosan natives. These objects formed part of the Formosan exhibit at the Japan-British Exhibition in 1910. *Presented by the Formosan Administration.*

A series of ethnographical objects collected from the Ainu installed in a village at the Japan-British Exhibition in 1910, including weapons, ornaments, appliances for fishing, domestic utensils, objects connected with religious ceremonial, and models of huts.

Two chatelaines worn by the Hill-men of Kumaon on the Tibet border. *Presented by Mrs. Rivett-Carnac.*

Serpentine brush-pot said to be from the Summer palace at Pekin. *Presented by A. Wynne Corrie, Esq.*

Two Indo-Persian axeheads, iron inlaid with silver. *Presented by the Library Committee of the City of London.*

The dress of an Angami Naga warrior and several head-ornaments, from Assam. *Presented by C. L. Hardcastle, Esq.*

Oval medallion of Pertabghar enamel with animals inlaid in gold. *Presented by Mrs. Knox Johnson.*

A series of chalcedony and other neolithic flakes found near Poona, India. *Presented by G. F. Keatinge, Esq., I.C.S.*

A ceremonial sword, archer's glove, bronze door-plates and other objects from Japan, and a porcelain pillow, candlesticks, paint-brush cleaner and cosmetic vase from China. *Presented by C. Lund, Esq.*

Three carved ivory panels from the throne of the Maharajah of Tanjore ; 15th century. *Presented by C. Fairfax Murray, Esq.*

A pack of Japanese playing cards and an Indian grain rubber. *Presented by Dr. C. H. Read, P.S.A.*

A model to one-tenth scale of the house of a Chinese of the commercial class, made by a native carpenter, Hwei-an district, near Amoy. *Presented by Dr. G. Reynolds Turner.*

Two finger-rings from the "Miri," or mound, in Quetta arsenal. *Presented by Capt. W. B. Walker.*

An ethnographical series from S.W. China.

A Chinese compass-face of brass, an iron brazier and a jade hair-ornament.

A series of objects collected in Tibet during the recent British Expedition.

A sandal-wood grinding-stone from Ceylon.

Set of nine inscribed jade tablets, one dated A.D. 1649, from the Temple of Ancestors, Pekin.

Africa.—A large and very important collection illustrative of the ethnography and art of the Bashilele, Bakongo, Bapende, Babunda and Badjok tribes of the S.W. Belgian Congo. This collection, which is part of the material acquired by the recent ethnographical expedition under the leadership of Mr. E. Torday, includes the series of objects acquired in that section of the country which had not before been crossed by Europeans.

A large and valuable series illustrative of the ethnography of the Akikuyu of the East Africa Protectorate. Most of the objects have been fully described and illustrated in the donor's recent book. *Presented by W. Scoresby Routledge, Esq.*

An interesting ethnographical series collected in South Africa and Abyssinia by the late Sir Bartle Frere. *Presented by Sir Bartle Frere, Bart.*

Five ivory carvings from Benin, three of which exhibit unusual perfection of workmanship. (Illustrated in *Man*, 1910, No. 29.)

A number of quartz flakes from Broken Hill, Rhodesia. *Presented by T. Codrington, Esq.*

Two celts and a number of stone arrowheads from West Mauretania. *Presented by Lieutenant Dangelzer.*

An ethnographical series, including several sets of divining-bones, from South Africa. *Presented by H. W. Garbutt, Esq.*

Two wooden carvings from Lamu, East Africa; probably Portuguese. *Presented by H. H. Horne, Esq.*

A series of ethnographical objects from Madagascar. *Presented by Neville Jones, Esq.*

Twelve flints from the Victoria Falls of the Zambesi River. *Presented by G. W. Lamplugh, Esq.*

A large series of stone celts from Zaria province, N. Nigeria. *Presented by Montague P. Porch, Esq.*

A stone arm-ring from Sokoto. *Presented by Dr. C. H. Read, P.S.A.*

An ivory pestle and a carved tusk from Benin. *Presented by Max Rosenheim, Esq., F.S.A.*

A Mzabite shirt and a Kabyle brooch from Algeria. *Presented by Mrs. Eustace Smith.*

An ethnographical series from the Bageshu, Turkana and Basoga, of the Uganda Protectorate. *Presented by F. Spire, Esq.*

An ethnographical series from the Lower Congo.

An ethnographical series from the Tofoke of the Lomami River, Belgian Congo.

Oceania.—A club from the Marquesas Islands of unusual size; formerly used as the "mace" of the Noviomagians Club. *Presented by F. Dillon Croker, Esq.*

Three *mere* from New Zealand, of jade, basalt and whale's bone respectively; with other stone implements from Oceania. *Presented by the Library Committee of the City of London.*

A wooden idol of exceedingly rare type from Rarotonga. *Presented by Dr. C. H. Read, P.S.A.*

Two mortars of volcanic tufa and a basalt pestle from Hawaii, found buried in Clements Inn. *Presented by E. Harrow Ryde, Esq.*

A collection of *churinga* from Central Australia.

A mask and head-ornament from New Guinea.

Model canoe from New Zealand.

America.—An old copper mask from Vancouver Islands, and specimens of Nicaraguan pottery. *Presented by H. J. Gardiner, Esq.*

Two mummies, together with other objects from graves near Acari in Peru. *Presented by Capt. J. H. Gronow.*

A series of objects from ancient sites in Greenland.

A wooden mask from the North-west coast of America.

A gold mask, helmet, two vessels and a number of ornaments from the Republic of Colombia.

Indian canoe of birch bark from North America.

Christy Collection.

During the year 103 objects have been entered in the Registration Catalogue. The Christy Trustees have acquired by donation and purchase the following objects, which they have transferred to the Trustees of the British Museum :—

I.—*Ethnography of Africa:—*

A fetish figure from the Ibibio of S. Nigeria. *Presented by E. Dayrell, Esq.*

A series of musical instruments from Nigeria. *Presented by Dr. Foy.*

Three hide shields from the Sudan, two flasks from Abyssinia, and a spearhead and dagger from N.W. Africa. *Presented by A. W. F. Fuller, Esq.*

A carved nut from the Zappo-zapp of the Belgian Congo. *Presented by G. S. Holmes, Esq.*

A feather headdress from the Lango of the Uganda Protectorate. *Presented by G. P. V. Jervoise, Esq.*

Three school reading boards inscribed with Arabic characters, from a mosque in a Mandingo village; obtained during the Gambia expedition in 1894. *Presented by Lt.-Col. O. L. Josling.*

A number of stone flakes and a stone pestle from Sokoto province, N. Nigeria. *Presented by Capt. D. H. Macdonnell, D.S.O.*

A leather belt and fittings from the Gold Coast. *Presented by G. Cunningham Scott, Esq.*

An inlaid wooden armlet from Kano, and a perforated stone hammer found near Lagos. *Presented by J. B. Travers Solly, Esq.*

Four arrows and three pieces of native currency, from the Egede Country, S. Nigeria. *Presented by D. Hay Thorburn, Esq.*

Four wooden figures from the club-house of the Amarikpo Society, Ogoni Country, S. Nigeria. *Presented by J. B. Tombleson, Esq.*

Two hats worn by Masarwa Bushmen and a lump of native soap, from Lake Ngami; two knives and a doll from the Mampakush of the Ngami marshes. *Presented by R. B. Woosnam, Esq.*

II.—*Ethnography of Asia :—*

An ethnographical series from the Malay Peninsula, collected by the late Archibald Campbell of Kuala Kangsar, Perak. *Presented by H. Campbell, Esq.*

A Chinese hat. *Presented by A. W. F. Fuller, Esq.*

A series of dresses, ornaments, pipes, musical instruments and obsolete currency from Siam. *Presented by H. B. Garrett, Esq.*

Ethnography of Oceania :—

A large mat from the Pacific. *Presented by A. W. F. Fuller, Esq.*

A necklace of jade beads from New Caledonia. *Presented by Mrs. Hadfield.*

A nose-ring of turtle-shell from Santa Cruz, an armlet of clam-shell from Rubiana, and a comb from Ulaua, Solomon Islands. *Presented by Mrs. T. Harding.*

A skull mask from the Gazelle Peninsula, New Britain. *Presented by Dr. Arthur Willey.*

Antiquities and Ethnography of America :—

A series from ruined sites in the Cañon de Chelly, Arizona, and an elk-horn dagger carried by a Pomo "bear-man." *Presented by Stewart Culin, Esq.*

Pottery vase, wooden bottle and cup, and silver spoon from graves in Peru. *Presented by Alec. Ferguson, Esq.*

A bark baler from N.W. America and a large decorated gourd from Paraquay. *Presented by A. W. F. Fuller, Esq.*

A series of stone arrowheads from Maryland. *Presented by Dr. Lloyd Witham.*

In addition to the above donations the Christy Trustees have acquired by purchase a large and very important ethnographical series, being the greater part of the collection of the London Missionary Society other than that already on deposit at the British Museum. This series comprises objects from Africa, America, China, India and Oceania, and nearly all the specimens date from the days of the early Missionaries, notably Robert Moffat, Robert Morrison and John Williams.

Charles H. Read.

Department of Coins and Medals.

I.—*Registration and Arrangement.*

1. *Greek Series:—*

389 coins, of various parts of the Greek world, recently acquired, have been registered and incorporated.

26 coins hitherto unattributed have been identified and incorporated.

The coins of the later Macedonian Kings (from Philip II.) and those of Lysimachus have been expanded from five to eight cabinets, in order to facilitate re-arrangement and future incorporations.

New heading-cards and labels have been inserted throughout the Phœnician series.

The series of forgeries of Greek coins has been expanded.

The following collections have been examined, with a view to making selections for the Museum:—Two large collections of coins of Philip II., Alexander the Great, and later Macedonian Kings, and three smaller series of the same class; a large collection of coins of Lysimachus; two series of coins from Cappadocia, and a large collection from Makri in Lycia.

The MS. bibliography of numismatics has been continued and brought up to date.

A card-index of the types of Greek coins has been begun, by mounting on cards photographs of the coins illustrated in the Greek Coin Catalogues and other publications, and arranging them under types.

2. *Roman and Byzantine Series:—*

37 coins recently acquired have been registered and incorporated.

12 coins hitherto unattributed have been identified and incorporated.

The following collections have been examined:—A series of Roman coins from Silchester; a hoard of silver siliquæ of the fourth century A.D., found many years ago between Bath and Bristol; two collections belonging to the Museums of Lincoln and Wells.

19 Imperial denarii, Titus—Antoninus Pius and M. Aurelius Cæsar, found at Nottingham and sent as Treasure Trove to H.M. Treasury, have been examined and reported upon.

3. *British and Colonial Series:—*

121 coins, medals, tokens and tickets, recently acquired, have been registered and incorporated.

3 coins hitherto unattributed have been identified and incorporated.

The "Short-Cross" series has been expanded by the addition of another cabinet, and various rectifications have been made. Several records and chronicles bearing on this coinage have been examined. The coins of Henry V. and Henry VI. have been re-arranged and heading-cards added.

The English money-changers' weights for English, Irish and Portuguese coins have been brought together and arranged.

A bibliography has been begun of monographs and articles in the periodicals relating to English coins.

A collection of ancient British coins belonging to a private owner has been examined, and casts from the specimens have been incorporated in the Museum collection of casts.

A find of 676 ancient British and Roman coins has been classified and a selection made of specimens desirable for the Museum.

Two selections of early English and Scottish coins and two series of coins of William I. and William II. offered for purchase by dealers have been examined.

4. *Mediaeval and Modern Series:—*

507 coins, medals and jetons, recently acquired, have been registered and incorporated.

3 coins hitherto unattributed have been identified and incorporated.

The series of the coins of America has been expanded from three to four cabinets.

The series of German historical medals has been expanded from two to three cabinets, and the French artistic medals, previously included in the same cabinet, have been placed in a separate one.

Rectifications have been made in the Russian coin-series and in the series of the medals of Pope Paul II.

A collection of coins and medals of Europe and America, offered for presentation, and a small collection of early coins of Wallachia and Moldavia have been examined.

A MS. subject-list (230 pages, folio) of works on coins and tokens has been compiled for use in the Department.

Proof-sheets of the *Corpus* of Italian Coins, in preparation by H.M. the King of Italy, have been read and collated with the coins in the British Museum.

5. *Oriental Series:—*

451 coins, recently acquired, have been registered and incorporated.

68 coins, hitherto unattributed, have been identified and incorporated.

35 uncertain coins in the local issues of Central India have been identified.

36 coins of Kuch Behar, hitherto unclassified, have been identified and attributed to nine kings, eight of whom are new to the Museum series.

The Persian series has been expanded, and the *larins* have been classified.

The Corean coin-charms and amulets have been removed from the Chinese series and arranged separately.

Rectifications have been made in the following series:—Coinage of the Sultans of Bengal and Delhi; Mughal series; coins of Manipur; local series of Northern India; minor coinages of North-East India.

Two collections of Indian coins offered for presentation, and a large collection of Muhammadan coins of India have been examined.

Two collections of coins from Khotan (Stein expedition) have been examined and identified.

Four collections of Gupta coins belonging to private owners have been examined and important varieties noted.

A representative selection (with an accompanying Catalogue) has been made of the coins current at various periods in the United Provinces of Agra and Oudh, for reproduction in electrotype for the Allahabad Exhibition. The selection will be subsequently presented by the Trustees of the British Museum to the Lucknow Museum.

II.—*Catalogues.*

1. Catalogues of Greek Coins.

Coins of Philip II., Alexander the Great, and later Macedonian Kings, by Warwick Wroth.

In preparation for this work, which is expected to extend to two volumes, and in which the coinage of Lysimachus, King of Thrace, will be included, a numismatic and historical bibliography has been compiled. 600 coins have been weighed, and 543 verified with the registration-books. The coins of Cassander, King of Macedon, have been arranged and described.

Coins of Phœnicia, by G. F. Hill.

The Indexes have been compiled and a map prepared. The text (from signature E onwards), and the whole of the Indexes and Introduction have been passed for press and the volume published.

Coins of Palestine (Galilæa, Samaritis and Judæa), by G. F. Hill.

The coins of Diocæsarea and Tiberias have been arranged and described and the historical introductions to these towns

and to Sycaminum and Dabora have been written. 1,705 coins have been weighed.

2. Catalogues of Roman and Byzantine Coins.

Coins of the Roman Republic (3 vols.), by H. A. Grueber.

The preparation of the Indexes has been completed. Signatures B–HH (Vol. III.) have been sent to press and the whole work issued to the public.

Coins of the Vandals, Ostrogoths and Lombards, and of the Empires of Nicæa and Trebizond, by Warwick Wroth.

The coins of the Empire of Trebizond (from Manuel I.) have been arranged and described, and the manuscript of the whole text of the volume has been revised and placed in the printers' hands. Signatures B to Dd (pp. 1–208) have been passed for press, and pp. 1–192 have been indexed. The whole introduction to the nine sections of the Catalogue has been written. Plaster casts of the coins have been arranged in 43 plates for the photographer, and all the proofs of the plates have been passed for press.

3. Catalogues of British Coins and Medals.

Catalogue of English Coins: Norman Series, by G. C. Brooke.

891 coins of William I. and William II. have been described and 634 coins have been weighed.

Medallic Illustrations of the History of Great Britain and Ireland (illustrated ed.) by Hawkins, Franks and Grueber.

The compilation of Part XII. has been completed and this part has been published. Parts XIII. and XIV. have also been compiled and published. The compilation of Part XV. has been begun. Indexes to this publication have been begun and completed as far as Plate XXX.

4. Catalogues of Oriental Coins.

Catalogue of Indian Coins: Coins of the Guptas, by J. Allan.

Descriptions have been written of 731 specimens and 133 have been weighed.

III.—*Acquisitions.*

The total number of coins and medals added to the Department during the year 1910 was 1,548, of which 212 were of gold, 882 of silver, 345 of bronze and 109 of other metals.

The following table shows the numbers of the new acquisitions, classified according to the several series to which they belong :—

Class.	Gold.	Silver.	Bronze.	Other Metals.	Total.
Greek - - - -	14	210	156	4	384
Roman - - -	1	36	17	—	54
British and Colonial - -	9	71	27	12	119
Mediæval and Modern - -	67	367	49	67	550
Oriental - - - -	121	198	96	26	441
Total - -	212	882	345	109	1,548

Of the above, 499 have been presented, viz., 69 of gold, 266 of silver, 122 of bronze and 42 of other metals.

The following is a list of benefactors to the Department of Coins and Medals during the past year :—

The Royal Geographical Society; the Deputy Master of the Mint; the Worshipful Company of Musicians; the National Battlefields Commission of Canada; the Government of the United Provinces of India; the Government Museum, Madras; the Bombay Branch of the Royal Asiatic Society; the Superintendent of the Western Circle, Archaeological Survey, Poona; J. Allan, Esq.; Professor F. P. Barnard; A. Birtwhistle, Esq.; G. A. Black, Esq.; J. Stephens Blackett, Esq.; Dr. A. E. Bridger; A. W. Brown, Esq.; Miss Close; G. W. Daniels, Esq.; Charles Dawson, Esq.; A. J. Evans, Esq., F.R.S.; Miss Helen Farquhar; G. Flowers, Esq.; E. Grant Duff, Esq., C.B.; H. A. Grueber, Esq., F.S.A.; Rev. A. W. Hands; F. D. Harford, Esq.; F. W. Hasluck, Esq.; P. Hemingway, Esq.; J. A. Herbert, Esq.; Frank C. Higgins, Esq.; Herbert Hill, Esq.; W. R. Hubbard, Esq.; Signor Stefano Johnson; Sir A. W. Lawrence, Bart.; L. A. Lawrence, Esq.; Alexander Mann, Esq.; J. R. McClean, Esq.; Mrs. Hester Moggridge; Maung Po Mya, Esq.; W. R. Nevill, Esq.; J. Edge Partington, Esq.; Dr. T. L. Pennell; Professor Harvey Porter; W. T. Ready, Esq.; Edward G. Roe, Esq.; Max Rosenheim, Esq., F.S.A.; H. Collingwood Selby, Esq.; R. Sutcliffe, Esq.; E. O. Swallow, Esq.; Major P. M. Sykes, C.M.G.; W. H. Valentine, Esq.; Mrs. Way; F. Parkes Weber, Esq., M.D.; W. B. Wildman, Esq.; Howland Wood, Esq.; Major Wyndham Wood; A. M. Woodward, Esq.; Dr. S. Woolf.

IV.—*Remarkable Coins and Medals.*

1. *Greek Series :—*

(*a*) *Europe :—*

Italy.—Bruttium.—Caulonia.—A silver stater of the transitional period; *obv.* KAV Apollo to r., and stag on basis; *rev.* Stag to r. Wt. 121·9 grs.

Thrace.—Byzantium.—A rare silver denarius, with the head of Augustus on the *obv.*, and that of Rhœmetalces I., king of Thrace, on the *rev.*; monograms representing **ΚΑΙΣΑΡ** and **ΒΑΣΙΛΕΩΣ ΡΟΙΜΗΤΑΛΚΟΥ**. Wt. 49·4 grs.

Philippopolis.—A bronze coin of Elagabalus; *rev.* Asklepios.
Presented by W. R. Hubbard, Esq.

Mœsia.—Istrus.—A silver drachm (4th cent. B.C.); *obv.* Two heads facing, side by side, one upside down; *rev.* **ΙΣΤΡΙ** Sea-eagle on dolphin; below **ΦΥ**. 76·4 grs.
Presented by E. O. Swallow, Esq.

Thraco-Macedonian.—Lete (?).—A rare stater, of the early 5th century B.C.; *obv.* Satyr and nymph, and three pellets (as mark of value?); *rev.* Male head, with long moustache, facing, in incuse square. Wt. 141·2 grs.

Macedon.—Kings.—A large number of coins, including 2 gold, 125 silver and 45 bronze, of Philip II., Alexander III. and his successors, and Lysimachus, king of Thrace.

A silver tetradrachm of Alexander's types, struck at Aspendus, with *beardless* Zeus. Wt. 258·3 grs.
Presented by E. O. Swallow, Esq.

Locri Opuntii.—A bronze coin of Galba; *rev.* Male figure holding phiale, and name of magistrate M. Aur. Serapion.
Presented by A. M. Woodward, Esq.

Acarnania.—Argos Amphilochicum.—A silver coin of the 4th century B.C.; *obv.* Pegasus flying; below, caduceus; *rev.* Female head to l. Wt. 27·1 grs.

Corinth.—A bronze coin of Agrippina Junior; *rev.* Figures of Nero and Britannicus standing.

Corinthian Colony, uncertain.—A silver coin of the 4th century B.C.; *obv.* Pegasus flying; below, ear of corn; *rev.* Head of Apollo to r.; monogram. Wt. 24·4 grs.

Argolis.—Epidaurus.—A rare silver drachm (of the period 323–240 B.C.); *obv.* Head of Apollo r.; *rev.* Asklepios seated, caressing a serpent; below his throne, a dog. Wt. 71·4 grs. The reverse type is a reproduction of the famous statue of the god by Thrasymedes of Paros. From the Philipsen Collection.

Celts of the Rhine District.—A gold stater ("Regenbogenschüsselchen"); *obv.* Dragon coiled in the form of a penannular bracelet; *rev.* Six pellets in a semi-circular torque. Wt. 114·1 grs. From the Strœhlin Collection.

Gaul.—Twenty-six silver and bronze coins of various mints, including 11 of Massilia.

Britain.—Eight gold and 4 silver coins, including 1 gold stater of Addedomarus (84·4 grs.).

A silver coin of the Southern District (as Evans, Pl. F. 7).
Presented by Rev. A. W. Hands.

A representative selection of 65 silver, base silver, and bronze coins, from a very important hoard, buried about the middle of the 2nd century, and found in South Hampshire, comprising Roman silver and bronze coins, Gaulish imitations of Roman silver and bronze coins, and native British and Gaulish coins in silver and bronze. The selection includes six silver pieces of the S.W. district and of the Channel Islands, and two (probably Gaulish) imitations of denarii of Julius Cæsar and of Vitellius, both made at the same time; bronze imitations (probably Gaulish) of coins of Claudius I.; and a hitherto quite unknown series of *cast* bronze pieces, representing the final degradation of the Macedonian head and biga types from which the British were derived.

(*b*) *Asia and Africa*:—

Pontus.—Amasia.—A bronze coin (1st century B.C.); *obv.* Head of Zeus; *rev.* **AMAΣΣΕΙΑΣ** Eagle on thunderbolt.

Paphlagonia.—Sinope.—A bronze coin with the head of Julius Cæsar; *rev.* **EX·D·D.** Cornucopiæ and globe.

Bithynia.—Apameia (*Myrlea*).—A bronze coin of the 3rd century B.C.; *obv.* Head of Athena; *rev.* Bunch of grapes.

Chalcedon.—A rare silver tetradrachm of the period and types of Lysimachus, king of Thrace, but with the inscription **ΚΑΛΧΑΔΟΝΙΩΝ** instead of the king's name. Wt. 256·7 grs. A product of the autonomous mint granted by Lysimachus to this city.

Mysia.— Cyzicus. — A bronze "medallion" of Severus Alexander; *rev.* Laureate bearded bust to right, with the name of the strategos Aur. Aristeides.

Ionia.—Ephesus.—A bronze coin of Domitian; *rev.* Cultus-statue of the Ephesian Artemis.

Presented by A. M. Woodward, Esq.

Phrygia.—Eriza.—A bronze coin of the 2nd–1st century B.C.; *obv.* Head of Zeus or Poseidon r.; *rev.* Eagle r.

Phrygia.—Hadrianopolis.—A finely preserved bronze coin of Gordian; *rev.* Apollo as archer.

Lycia.—Dynast Kuprlli (*Kubernis*).—*Circ.* 480–450 B.C. A silver coin; *obv.* Lion, winged and horned, standing; *rev.* Triskeles and the inscription **KOΠ**. Wt. 8·2 grs.

Telmessus.—A bronze coin of the 3rd century B.C.; *obv.* Radiate head of Helios, facing; *rev.* Apollo seated l. on omphalos.

Cilicia.—Anazarbus.—A bronze coin of Caracalla; *rev.* The Koinoboulion seated, holding three statuettes (representing the three eparchies).

Tarsus.—A bronze coin of Caracalla; *rev.* Crown of the priest of the imperial cult, set with busts of Emperors.

Presented by F. W. Hasluck, Esq.

Another, of Gordian; *rev.* The river god Kydnos.

Cyprus.—A rare silver stater (mint uncertain; period late 6th century B.C.); *obv.* Head and fore-foot of lion, jaws open; *rev.* Irregular incuse square. Wt. 126·2 grs. From the Philipsen Collection.

Cyprus (?).—A silver ⅓ stater (probably unique) of the dynast Baana, *circ.* 450 B.C.; *obv.* Persian king slaying a lion; *rev.* Bull standing to left; above, Hebrew letters (for Baana). Wt. 53·8 grs. The only other coins of this dynast known are staters in the Paris and Glasgow cabinets, usually attributed to Phœnicia. From the Philipsen Collection.

Syria.—A silver coin, perhaps a Yueh-ti imitation of Antiochus I. Wt. 9·7 grs.

Presented by Gilbert A. Black, Esq.

Syria.—Antioch.—A specimen of the very rare silver tetradrachm of Augustus, with *rev.* Zeus seated. This type, which continues that used by the later Seleucidæ, was superseded on the commoner series issued by Augustus, with the Tyche of Antioch. Wt. 213·9 grs.

Heliopolis.—A bronze coin of Valerian; *rev.* Athlete crowning himself with wreath and holding long palm-branch.

Phoenicia.—Tyre.—A silver didrachm (*circ.* 332–275 B.C.); *obv.* Tyrian Melkarth riding on hippocamp; *rev.* Owl with crook and flail, and date 3. Wt. 136 grs.

Samaria.—Nysa-Scythopolis.—A bronze coin of Marcus Aurelius; *rev.* Dionysos and panther.

Judaea. — Second revolt (A.D. 133–135) under Simon Barcochab. (*a*) A silver tetradrachm; *obv.* Temple; *rev.* Citron and bunch of twigs; struck over an Antiochene tetradrachm of Nerva or Trajan. (*b*) Five silver denarii, struck over older silver coins, one a Cæsarean denarius of Trajan; remains of the original types or inscriptions are visible. (*c*) Five bronze coins; *obv.* Vine-leaf; *rev.* Palm-tree. (*d*) An unusually fine and legible specimen of the rare variety of the largest bronze coin of the same period, apparently re-struck on a coin of Alexandria; *obv.* Vase, with Hebrew inscription "Second year of the deliverance of Israel"; *rev.* Inscription "Jerusalem" in wreath. On the commoner variety of this coin the inscription on the reverse is "Simon Nasi Israel."

Parthia.—A silver tetradrachm of Phraates IV., dated in the month Hyperberetaios; *rev.* Tyche of city presenting a crown to the King. Wt. 209 grs.

Arabia.—Esbus.—A rare bronze coin of Antoninus Pius; *rev.* Zeus seated.

Arabia.—Himyarites.—Two rare silver coins from the hinterland of Aden (from the Morib side of the frontier): (*a*) *obv.* Male head l., with two Himyarite signs; *rev.* Bull's head facing; on l., a monogram, 55·2 grs. (*b*) *obv.* Male head r., with curly hair; *rev.* Bearded head r., and Himyarite sign, 27·5 grs.

A silver coin: *obv.* Head of Apollo (imitated from a Roman denarius of about 80 B.C.); *rev.* Owl on amphora between two Himyarite signs (imitated from Athenian tetradrachms of the New Style). 83·4 grs.

Abyssinia.—A rare gold coin of the Kingdom of Axum, with the busts and names (blundered) of the kings Chaleb and (his father?) Thezena. Wt. 24·8 grs.

Zeugitana.—Carthage.—Three silver tetradrachms struck in Sicily, *circ.* 410–310 B.C.: (*a*) Nike flying, crowning forepart of horse; *rev.* Palm-tree, 269·2 grs. (*b*) *obv.* Head of young Heracles in lion-skin; *rev.* Head of horse; behind, palm-tree, 261·9 grs. (*c*) Similar to preceding, but on *rev.*, symbol, thunderbolt, and traces of Phoenician inscription, 260·9 grs.

Forgeries.—A silver coin of Pisa in Elis, by a Piræus forger; types: head of Zeus and thunderbolt.

Presented by A. M. Woodward, Esq.

Four small silver coins, types: (*a*) *obv.* Bull's head; *rev.* Amphora (with Lycian letters). (*b*) *obv.* Bull's head; *rev.* Star. (*c*) *obv.* Lion's head; *rev.* Star (2 varieties). The origin of these coins, of which numbers have recently been put upon the market, has been traced to Cæsarea Mazaca.

Presented by F. W. Hasluck, Esq.

2. *Roman and Byzantine Series:—*

Octavian.—Silver denarius struck during 36–29 B.C.; *rev.* Shield.

35 silver siliquæ of the second half of the 4th century, being a selection from a hoard found many years ago at some place between Bath and Bristol; and a bronze follis of Constantius Chlorus.

Presented by A. J. Evans, Esq., F.R.S.

Libius Severus.—A gold solidus (Gallo-Visigothic imitation), found near Sittingbourne; *rev.* Emperor standing with his foot on the head of a dragon, holding labarum and Victory; mint-mark of Ravenna. Wt. 65·8 grs.

14 small copper coins of the 12th century, attributed to Manuel I. and Isaac II.

Presented by F. W. Hasluck, Esq.

3. *British and Colonial Series:—*

(*a*) Coins:—

Pennies of William II. struck at Chester and Salisbury in very fine condition, and other rare coins of this reign.

A Leopard and Guiennois of Edward III. and a Pavilion (Bordeaux) and Hardi d'or (Rochelle) of Edward the Black Prince.

A London groat of the light coinage of Henry IV. having the late portrait with aged features, of which only one other example is at present known.

Presented by A. Birtwhistle, Esq.

A Bristol halfpenny of Henry VI. struck by Bartholomew Goldbeter under an indenture of 16 February 1422 which ordered the issue of groats, half-groats, pennies, halfpennies and farthings from the York and Bristol mints. This halfpenny is probably unique and the only other denomination at present known of the Bristol mint is the groat.

Presented by Alexander Mann, Esq.

A quarter-angel of James I. belonging to his first issue. This coin is believed to be unique. By an indenture of 21 May 1603, Sir Richard Martyn was ordered to issue the angel and its parts in accordance with an Order of the 43rd year of Elizabeth, with the addition of the Scottish title. This quarter-angel is the only coin at present known which illustrates this issue ; on it the king is entitled **AN.SC.FR.ET HI.REX,** the titles **AN.SC.** were not used after October 1604, when a proclamation ordered **MAG.BRIT.** to be substituted for them. The reverse bears the royal shield instead of the usual ship.

Presented by Alexander Mann, Esq.

A pewter farthing of Charles II., with the edge inscribed, **NVMMORVM * FAMVLVS * 1685.**

A Dorchester token of 1656 issued by Thomas Hall.

Presented by H. Collingwood Selby, Esq.

(*b*) Medals :—

A memorial badge in silver of Charles I. with his bust in armour on the obverse and on the reverse the royal cypher ; this piece is of great rarity, only one other specimen being known.

Presented by Miss Helen Farquhar.

A silver portrait medal of Henry, Duke of Gloucester, and Princess Mary, children of Charles I. This portrait of Princess Mary occurs on other medals by Van Abeele which have on the reverse the portrait of her son, afterwards King William III. No other instance of a medallic portrait of Henry, Duke of Gloucester, is known.

A bronze badge, probably unique, made in 1745 to be worn by the followers of Prince Charles Edward ; it shows within a floriate border a half-length figure of the Prince in Highland dress, and around it is the inscription, **EN TIBI ME SCVLPTVM : SCVLPTVM IT POSEAS** (*sic*) **IN ARE** (*sic*) **: INSCVLPAS CORDI PRECO VERE TVO.**

An 18th century Election Ticket in lead, inscribed on the obverse **K. GEORGE FOR EVER,** on the reverse **LIBERTY AND PROSPERITY VOTE FOR [DIXON?] 1755.**

Presented by W. B. Wildman, Esq.

A bronze centenary medal of Charles Darwin, by K. Goetz.

Specimens in gold and silver of the Court and Livery Badge of the Worshipful Company of Musicians.

Presented by the Master and Livery of the Worshipful Company of Musicians.

A bronze medal commemorating the tercentenary of the Foundation of Quebec.

Presented by the National Battlefields Commission of Canada.

A specimen in bronze of the gold medal recently presented to Commander Peary.

Presented by the Royal Geographical Society.

The gold Championship Badge of the Billiard Association of Great Britain; also one gold and one silver badge for spot-barred scores, all won by Mr. Charles Dawson.

Presented by Charles Dawson, Esq.

4. *Mediaeval and Modern Series:—*

(*a*) Coins:—

An important series of coins, mainly European and North and South American, including many of considerable rarity of which the following may be mentioned:—

Europe - -	Austria.—Thaler of Leopold I. struck for the Tyrol.
	Burgundy.—A gold noble of Philip le Hardi, an imitation of the English noble.
	France. — 2 francs-à-pied in gold of Charles V., le Sage; another of Jeanne de Naples struck for Provence.
	Germany.—A thaler of Paris, archbishop of Salzburg.
	Spain.—A scudo di oro of Joanna and Charles I. of Castille; a gold piece of eight of Charles III.
	Portugal. — A half-dobra of Maria and Peter III.
	Holland.—A thaler of West Friesland.
North America -	United States.—A twenty-dollar piece of 1853; five dollar pieces of 1798, 1805 and 1845; a three-dollar piece of 1854 and a gold dollar of 1856.
	Mexico.—An onza of eight scudos of Augustin I., 1822–1823, and a gold quarter-onza of the republic, 1849.
Central America	Honduras.—A dollar, half- and quarter-dollar commemorating the foundation of the republic, 1821.
	Guatemala.—A piece of sixteen pesos of 1869 with the head of Carrera, founder of the republic.
	Costa Rica.—A five-peso piece of 1869.
	San Salvador.—A ten-peso piece of 1892.
	Venezuela. — A twenty-peso piece with portrait of Bolivar.

South America - Gold onzas of Chili (1833 and 1851), Ecuador (1838, 1840 and 1845), Bolivia (1836) and Argentina (1828).

Presented by Alexander Mann, Esq.

A double bourgeois of Philip IV. of France.

Presented by H. A. Grueber, Esq, F.S.A.

Some rare French provincial coins, including gold florins of Jean Costi, Bishop of S. Paul-trois-Châteaux, and Humbert II. of Provence; a ducat of Dombes struck by Pierre II. de Bourbon; a double écu of Louis II. de Bourbon Montpensier; two écus d'or of Gaston, souverain of Dombes; a quadruple pistole and a double pistole of Besançon under the emperor Charles V.

Death-thalers of Anhalt, of Prince Rudolf (1621) and Prince John, his son and successor (1667); a quadruple thaler of Friedrich Ulrich of Brunswick; a double thaler of Ferdinand Charles, Archduke of Austria, struck for Tyrol, others of Breslau and Nuremberg; a very rare thaler of Sigismund Ludwig of Dietrichstein, and other interesting European coins.

From the Holzmann Collection.

Gold coins of Frederick, Emperor of Germany, the first French Republic, Napoleon I. and Louis XVIII.

Presented by G. W. Daniels, Esq.

Nine silver and five bronze coins of the Portuguese colony of Goa, struck in the reigns of Jose I., Pedro III. and Maria I., Pedro IV., Maria II., Pedro V.

Presented by E. Grant Duff, Esq., C.B.

Seven copper coins of Cyprus struck by Jacques II., and two Turkish copper pieces counterstruck for Greek churches.

Presented by F. W. Hasluck, Esq.

(*b*) Medals:—

A German portrait medal of Sebastian Unterholzer and his wife, of the 16th century, artist unknown.

Three religious medals of the 16th century, probably executed by a member of the Reinhardt family.

A medal of the emperor Charles V., dated 1550, attributed with great probability to Hans Reinhardt, the artist who made the famous Trinity Medal of Duke Moritz of Saxony in 1554. On the obverse is the Emperor and on the reverse Christ enthroned.

A silver portrait medal of Christopher Andreas Im Hof.

Bronze Italian medals of Ferdinand II. and John Gaston, Grand Dukes of Treasury, by I. Veber.

Presented by Max Rosenheim, Esq., F.S.A.

A gold medal of the emperor Frederick IV., and his son Maximilian I.; one of a series issued by some Prague goldsmiths in the 16th century.

A silver medal belonging to the same series as the preceding, representing Leonora of Portugal, wife of the emperor Frederick IV.

A bronze medal of Louis XIV. of France struck by the community of Languedoc to commemorate the peace of Utrecht in 1713.

A bronze medal of Louis XV. of France struck in 1718, and other medals. *Presented by L. A. Lawrence, Esq.*

A bronze medal commemorating the tercentenary of the canonisation of S. Charles Borromeo.

Presented by Signor Stefano Johnson.

A German silver medal commemorating the appearance of Halley's comet.

A Peruvian gold medal of the Trans-Andine Railway of 1870. Only one other specimen was struck in gold.

Presented by Alexander Mann, Esq.

Four 19th century medals of the Argentine Republic.

Presented by F. D. Harford, Esq.

A portrait medal in silver of the donor as first president of the New York Numismatic Club.

Presented by Frank C. Higgins, Esq.

5. *Oriental Series:*—

A dinar of the Omayyad Khalif Hishām of the year 106 A.H.

Presented by Major Wyndham Wood.

A dirhem of the 'Abbāsid Khalif al-Mamūn struck at Fāris 204 A.H.

A dirhem of the Buwayhid Amīr al-Umarā struck at Madinat as-Salām 333 A.H. *Presented by Professor Harvey Porter.*

Eighteen glass weights of the 'Abbāsid and Fāṭimid dynasties.

A silver coin of Nūshīrwān, the last of the Mongols of Persia, struck at Hamadhān 750 A.H.

Nine silver coins of the Shaybanids, including coins of Abū Sa'īd, struck at Bukhārā, Tabrīz, and Samarḳand, and of Köchkünjī struck at Bukhārā, Isfarāīn and Meshhed.

A copper coin of the Shīrwān Shahs struck at Shīrwān 763 A.H. *Presented by Major P. Molesworth Sykes, C.M.G.*

A silver coin of al-Manṣūr, Imām of San'ā, of the year 1156 A.H., of an unpublished type.

Presented by E. G. Roe, Esq.

A gold coin of the Mangit Haidar Tora struck at Bukhārā 1218 A.H. and another of Sayyid Sulṭān of Khokand 1289 A.H.

A bronze coin of Fezzul bin Turkī, Imām of Muscat, 1313 A.H.

Presented by F. W. Hasluck, Esq.

A series of silver coins of Ismā'īl I. of Persia of the mints Ardabīl, Astarābād, Timajān, Sabzwār, Ganjah, Lāhījān,

Nakchuvān, Nishāpur and Herāt, and of Tahmasp I. of Astarābād, Isfarāīn, Tabrīz, Tuī, Ja'farābād, Sabzwār, Lāhijān, Meshhed, Nishāpur and Herāt.

A very rare gold coin of Sulaimān I. of Persia struck at Iṣfahān 1095 A.H. Wt. 53·4 grs.

A silver coin of Fatḥ 'Alī Shah of Persia struck at Kazwīn 1241 A.H.

A series of silver and bronze coins of recent Shāhs of Persia, of Muḥammad, Nāṣir-ad-dīn, Muzaffar-ad-din, Muḥammad 'Alī and Aḥmad, a ½ kran piece commemorating Nāṣir-ad-din's visit to Europe and a specimen of the silver medal distributed by Muḥammad Alī among the troops on the occasion of the bombardment of Parliament in 1908.

A muhur of Aḥmad Shah of Afghānistān struck at Aḥmadshāhī in the year 11 of his reign.

A gold coin of Shēr 'Alī struck at Herāt 1284 A.H. and a rupee of Kābul 1295 A.H.

A muhur of Shēr 'Alī struck at Kābul 1285 A.H.

Presented by the Superintendent of the Archaeological Survey, Western Circle, Poona.

Five Afghan rupees of Shujā-'al-Mulk (1219 : 2 and 1222 : 3 A.H.), of Qaisar Shāh (year 1), of Ayyūb Shāh (1234 : 1 A.H.), and of Nūr-ad-din (1227 : 5 A.H.), and two copper coins of Shujā-'al-Mulk, all of the Kashmir mint.

Presented by Robert Sutcliffe, Esq.

A silver medal of Habib Allāh Khān, reigning Amīr of Afghānistān, dated 1323 A.H.

An unpublished silver coin of Muḥammad bin Sām.

Presented by Dr. T. L. Pennell.

Two copper coins struck at Lahore in 938 and 939 A.H., probably by Bābar before his conquest of India.

Presented by Sir Alexander W. Lawrence, Bart.

A rare rupee of Akbar struck at Lahore : Ilāhī 39, month Shahrewar. *Presented by Robert Sutcliffe, Esq.*

A muhur of the Mughal Emperor Aḥmad Shah struck at Lahore 1164 : 4 A.H.

A rupee of the E.I.C. struck at Benares and two of 'Alamgīr II. struck at Bareilly in 1171 and 1172 A.H.

Presented by the Government of the United Provinces.

Three muhurs of Jaipur in name of Akbar II. (year 7), Bahadur II. (year 15), and Victoria (1862 : 25 A.H.).

A half muhur of Naṣr-ad-din of Oudh (1246 : 5 A.H.).

A rupee of Jodhpur of Victoria and Takhat Singh.

Presented by G. Flowers, Esq.

A series of modern silver and copper coins of local Indian states, including Alwar, Bhartpur, Bundi, Gwalior, Jaipur, Jodhpur, Junāgarh and Kacch, and four silver "Ramatankas" and coin amulets. *Presented by F. W. Hasluck, Esq.*

Eighteen Indian rupees, local issues of Jaisalmer, Rādhanpur, and Sind.

A series of 14 gold, silver and copper coins of Indore.
Presented by the Superintendent of the Archaeological Survey, Western Circle, Poona.

A muhur of Afḍal-ad-daulah of Haidarābād, 1277 A.H.
Presented by Alexander Mann, Esq.

A very fine collection of 57 gold, 9 silver and 7 copper coins of the Gupta dynasty, including a unique variety of the "Tiger" type, two new varieties of the "Battle Axe" type and specimens of the "*Asvamedha*" and "Lyrist" types of Samudragupta I., 326–375 A.D.; three unpublished varieties of the "Archer" type, two new varieties of "Horseman" type and three of the "Lion" type of Candragupta I., 375–414 A.H.; a new variety of the "Archer" type, a new variety of the "Lion" type and two unpublished varieties of the "Lion" type of Kumāragupta I., 414–455 A.D.; a specimen of the rare "King and Queen" type of Skandagupta, 455–480 A.D., and a fine specimen of the gold coinage of Prakāś'āditya c. 480–490 A.D.

A new variety of the "Lion" type of Candragupta II., giving a new title "*Siṅhacandra*," and another on which the goddess on the reverse holds a cornucopiæ in place of the usual lotus.

A fine specimen of the rare variety of the "Lion" type of Kumaragupta I., giving the title *Paradhasinhavikrama*.

Five silver mohars of Cakravartīndra and Vira Mahīndra of Kāṭhmāṇḍū, of Raṇa Bahādur and Gīrvāṇa Yuddha of Nepal, two rare gold coins of Queen Suvarṇadevī of Nepal and a rare silver rupee of Nara Nārāyaṇa of Kuch-Behar.
Presented by Sir Alexander W. Lawrence, Bart.

Thirteen gold and ten silver coins of Nepal, including every denomination issued by Surenda Vikrama and Pṛthvī Vīra Vikrama, and rare gold and silver coins of the Queens Trailokya Lakṣmī and Surā Lakṣmī from the collection of the late Sir Maurice Holzmann.

Five lead coins of the Andhra dynasty found in the Anantapur district.
Presented by the Government Museum, Madras.

Two rare lead coins of the Andhra kings, Dhuṭukālananda and Muḷānanda, from a find in the Karwar district.
Presented by the Bombay Branch of the Royal Asiatic Society.

An early gold uninscribed coin of globular fabric of South India.

Eight gold pagodas and half pagodas of Harihara I., Deva Rāya II., Kṛṣṇa Rāya and Acyuta Rāya of Vijayanagara from a find at Basim, Akula district.
Presented by the Government of the Central Provinces.

South Indian imitation in gold of a sequin of the Doge Alviso Mocenigo III.

A gold pagoda of Kṛṣṇa Rāya, two of Acyuta Rāya of Vijayanagara and a gold coin of the Cera dynasty.

A gold pagoda of the Cera dynasty found in the Malabar district. *Presented by the Government Museum, Madras.*

A rare gold coin of Jayakeśideva of the Kadamba dynasty.

Two copper coins of Muḥammad 'Alī, Nawāb of the Carnatic. *Presented by J. Stephens Blackett, Esq.*

A series of 43 gold, silver, and copper XVIIIth century local issues of South India

Presented by the Government Museum, Madras.

Twenty-two copper coins of the Maldive Islands from 1750 to the present day of 'Imād-ad-din, 'Izz-ad-din, Muiz-ad-din, Nūr-ad-din, Muīn-ad-din and Imād-ad-din.

A rare large lead coin of Tenasserim.

Presented by Maung Po Mya, Esq.

6. *Chinese Series:—*

A silver rupee struck by the late Chinese Emperor Kuang Hsü for the Province of Ssu-Chuan, having a bust of the Emperor on the obverse.

A quarter dollar of the Emperor Kuang Hsü struck at Mukden. *Presented by Herbert Hill, Esq.*

V.—*Students and Visitors.*

The number of visits made to the Department of Coins and Medals by students and others during the year 1910 was 4,228.

H. A. Grueber.

British Museum (Natural History).

STATEMENT of Progress made in the Arrangement and Description of the Collections, and Account of Objects added to them, in the Year 1910.

General Progress.

Visitors.

The total number of visits made by the public to the Natural History Museum during 1910 was 515,562, as compared with 535,116 in 1909. The number of visits on week days was 457,804, and on Sunday afternoons 57,758; both these figures are less than those of the previous two years.

The average daily attendance for all open days was 1,424; for week days only, 1,477; and for Sunday afternoons, 1,111.

Swiney Lectures.

Dr. T. J. Jehu gave his second course of Swiney Lectures during November, the subject for the year being "The Coasts of Great Britain and Ireland."

The lectures, twelve in number, were delivered in the lecture theatre of the Victoria and Albert Museum by permission of the Board of Education, and the total attendance for the course was 2,321 persons, or an average of 193 per lecture.

The Trustees have re-appointed Dr. Jehu to the Swiney Lectureship for a further period of two years (1911–12). The subject of the lectures in 1911 will be "Rocks: their origin and natural history."

Destructive Action of Light.

In connection with the question of the deterioration of exhibited specimens caused by the action of light, tests by the National Physical Laboratory are in progress with a view to ascertain (*a*) the effect of exposure of skins of animals (from the duplicate series) to full sunlight, and (*b*) the light-filtering properties of certain kinds of glass.

Interim reports on the subject have been received, and further experiments are in progress at the Laboratory with a view to determining this very important question.

In the meanwhile the windows of the Lower Mammal Gallery are being fitted with opaque blinds to exclude all light during the hours when the Museum is not open.

New Buildings.

The new room on the second floor, over the east corridor, to provide much needed accommodation for the Herbarium of British Plants, and the new offices on the same floor on the west side, have been completed by His Majesty's Office of Works.

Northern Boundary and Spirit Building.

Correspondence has passed between the Trustees and the First Commissioner of His Majesty's Works, &c., relative to the land on the northern boundary of the Museum, and to a proposal made by the First Commissioner to remove the Spirit Building to another site on the western side of the Museum grounds.

International Shooting and Field Sports Exhibition, Vienna.

His Majesty's Government having decided to be represented officially at the International Shooting and Field Sports Exhibition, which was held in Vienna in the summer of 1910, the Trustees agreed, at the request of the President of the Board of Trade, to assist Lord Desborough, Chairman of the Exhibition Committee appointed by that Department, in the formation of a collection of the big game animals of the British Empire for the British Section at the Vienna Exhibition; and the organization and arrangements for getting together the specimens, their reception at the Museum, and transmission to Vienna, were carried out under the supervision of Mr. C. E. Fagan, the Assistant Secretary of the Museum.

International Congresses.

The Hon. L. Walter Rothschild represented the Natural History Museum at the Eighth International Zoological Congress, held at Graz in August, the First International Congress of Entomology, held at Brussels in the same month, and at the Fifth International Ornithological Congress, held at Berlin from 30th May to 4th June. Dr. Harmer, Keeper of the Zoological Department, also represented the Museum at the Congress at Graz; whilst Dr. Rendle, Keeper of Botany, acted as delegate from the Museum at the Third International Congress of Botany, held at Brussels in May, and Dr. Bather, Assistant-Keeper, Department of Geology, attended, as the Museum delegate, the Eleventh International Geological Congress, held at Stockholm in August.

Destruction of Plumage Birds.

On the invitation of Lord Crewe, Secretary of State for the Colonies, the Trustees appointed Dr. Harmer, Mr. Fagan, and Mr. Ogilvie-Grant to represent the Museum at a conference

with representatives of the Colonial Office and other Departments as to the possibility of securing effective legislation on the subject of the destruction of plumage birds.

Board of Agriculture Advisory Committee.

On the invitation of Lord Carrington, Dr. Harmer has been allowed to join an Advisory Committee of the Board of Agriculture and Fisheries for the consideration of various questions with which the Board are from time to time required to deal in connection with scientific research in relation to agriculture.

Expedition to Christmas Island.

Mr. R. Kirkpatrick, an Assistant in the Zoological Department, was granted a period of extra leave to enable him to go on a mission to Christmas Island in the Indian Ocean, with the object of obtaining for the Museum specimens of a certain rare and valuable sponge known to exist in those regions.

Mr. Kirkpatrick, who received considerable assistance from the Christmas Island Phosphate Company, was successful in attaining the object of his mission, and the Museum has thereby secured several specimens of this interesting sponge.

Mr. F. C. Selous: Expedition to Central Africa.

The Trustees have accepted an offer by Mr. F. C. Selous to go early in 1911 on a mission to the Bahr-el-Ghazal and the Lado district of Central Africa, with the special object of obtaining for the Museum specimens of the Sudan eland and certain other large mammals; and have agreed to assist Mr. Selous by making a small grant towards the expenses of his expedition.

Lord Walsingham's Collection of Micro-Lepidoptera.

Lord Walsingham's collection of Micro-Lepidoptera and Entomological Library have been safely received at the Museum, and accommodated in the room allotted to them.

The increase of staff necessary for the proper management of this large collection has been provided.

(*See* last year's Return, p. 102.)

Bequest.

The Museum has received a valuable bequest of mineral specimens from the late Frederic Tendron, F.G.S., for many years Chairman of the St. John del Rey Mines, Brazil, by whose will the Keeper of the Mineral Department was requested to select from his collection any specimens considered worthy to be placed in the Museum. Altogether 54 specimens were selected, including rich examples of gold and a remarkable group of crystals of Pyrrhotite.

Specimens received on Deposit.

Mr. T. Bainbrigge Fletcher, R.N., has been allowed to deposit in the Museum his collection of Lepidoptera during his absence in India, on certain conditions, and subject to the understanding that it be left by will to the Trustees.

Mr. Willoughby Gardner having offered to supplement the recently acquired Entomological collections of the late Mr. E. Saunders, F.R.S., by the gift of Mr. Saunders's collection of about 300 microscope slides of entomological preparations, provided he (Mr. Gardner) might have, during his lifetime, a right to borrow a selection of the slides occasionally for home study, the Trustees have agreed to receive the collection on deposit in accordance with Mr. Gardner's wishes.

Presents.

The total number of gifts received during the year by the several Departments was 2,235, as compared with 2,295 in 1909. Many of these comprised large numbers of individual specimens. The details of all the more important of them will be found in the reports of the Keepers of the several Departments, but the following may be mentioned here as of special interest:—

From His late Majesty King Edward VII.—The skeleton of his thoroughbred horse "Persimmon," winner of the Derby in 1896; presented by His Majesty as a mark of the great interest which he had long taken in the British Museum.

From Mr. C. D. Rudd.—A valuable collection of specimens from British East Africa, consisting of 345 mammals (including the types of 20 new species), besides some birds and insects; being the first consignment of specimens obtained from a zoological exploration of British East Africa undertaken by Mr. Rudd for the benefit of the Museum, in continuation of his systematic survey of the fauna of our African territories.

From the subscribers to an expedition to Lake Ngami and neighbourhood, undertaken by Mr. R. B. Woosnam and the Hon. Gerald Legge.—A valuable collection of zoological specimens, comprising 89 mammals, 168 birds, 75 reptiles, 86 fishes, and 150 diptera.

From Mr. Ivor Buxton.—The type-specimen of a new Antelope, *Strepsiceros buxtoni*, or "Spotted Kudu," shot by him in the Sahatu Mountains, N.W. Gallaland.

From Mr. H. S. Thornicroft.—The complete skin, with skull and leg-bones, of a male Giraffe of large size, belonging to the small herd remaining in Petauke, N.E. Rhodesia.

From the relatives of the late Mr. T. C. Briscoe.—An exceptionally fine mounted head of an Indian Rhinoceros, bearing a horn believed to be of record size.

From Mr. F. D. Godman.—2,650 specimens of various orders of Insects added to the collection during the year 1909.

From the Rev. F. D. Morice.—The collection of British Hymenoptera formed by the late Mr. Edward Saunders, F.R.S.

From an anonymous donor (through Mr. Guy A. K. Marshall).—The specimens of palæarctic Rhynchota which formed part of the entomological collection of the late Edward Saunders, F.R.S.

From the Premier (Transvaal) Diamond Mining Co., Ltd.—An interesting series of specimens from the Premier Mine.

From the Directors of the De Beers Consolidated Mines Ltd., Kimberley.—A comprehensive and carefully selected series of 66 specimens of rocks and minerals from the De Beers and associated diamond mines.

From Prof. K. Oebbeke, of Munich.—An interesting series of minerals from Epprechtstein, Bavaria.

From Sir Joseph D. Hooker.—A bust of his father, Sir William Hooker, and portraits of several well known botanists and collectors of the earlier part of the last century.

From Mrs. A. J. Godden.—A collection of British plants, dried in sand, for exhibition in the Botanical Gallery.

From Mr. J. S. Shenstone, F.L.S.—His collection of 1,000 photographic slides of British wild plants.

Purchases.

Among the more important purchases made during the year, special mention may be made of the following:—

The third instalment of Canon Norman's collection of Atlantic and Arctic Invertebrates, other than insects, consisting of about 3,290 specimens of sponges (including 195 types and 184 co-types) and of a number of specimens of Hydrozoa, Anthozoa, Crustacea, etc.

The third and last portion of the Jacoby collection of phytophagous coleoptera, consisting of 3,981 specimens and including 934 types.

The first instalment of the collection of coleoptera from Japan and Ceylon formed by Mr. G. Lewis, of Tunbridge Wells, including about 400 species from Japan and about 1,600 species from Ceylon.

The collection of Palæarctic Hymenoptera formed by the late Mr. Edward Saunders, F.R.S.

A mounted head of the Northern White Rhinoceros, killed by Major Powell Cotton.

A collection of specimens illustrating the rate of growth and the food of certain fishes.

The second and final instalment of the Seeley collection of fossil reptiles, chiefly from the Karoo formation of South Africa.

Large portions of two skeletons of the Iguanodont Dinosaur *Trachodon*, from the Cretaceous Laramie formation of Wyoming.

Remains of Hippopotamus and Cervus, collected by Miss D. M. A. Bate from caverns of Crete.

Fossil marine reptiles from the Oxford Clay of Peterborough, including a skeleton of Steneosaurus.

A series of 26 selected diamonds typical of the products of the De Beers, Kimberley, Bultfontein, Dutoitspan, and Wesselton mines, South Africa. (The purchase price for these diamonds represented about half the market value of the stones.)

A magnificent crystal of the rare mineral Hambergite, unique in size, from Madagascar.

A fragment of the meteoric stone found at Lampa, Sierra de Chicauma, Chile.

A slice of the meteoric iron found at Shrewsbury, York Co., Pennsylvania.

Exchanges and Gifts of Duplicates.

Exchanges of duplicate specimens have been made with various institutions and individuals.

The following have been added to the list of institutions to receive grants of duplicate specimens, namely :—The Museum of the North Staffordshire Field Club, Hanley ; the Borough Museum, Battersea ; the Louth Naturalists' Antiquarian and Literary Society ; the Botanical Department of Sheffield University ; the L.C.C. Training College, Avery Hill, Eltham, Kent ; and Shrewsbury School Museum.

Selections of duplicate specimens have been presented as follows :—

Of zoological specimens—to the Museum of the Training Ship "Worcester" ; the Royal Scottish Museum, Edinburgh ; Oxford University Museum ; Manchester Museum ; the North Staffordshire Field Club Museum, Hanley ; the Indian Museum, Calcutta ; the South African Museum, Cape Town ; Canterbury Museum, Christchurch, New Zealand ; Auckland Museum, New Zealand ; the American Museum of Natural History, New York ; Mr. C. Sternberg ; Dr. Max Bernhauer ; Mr. Adolf Schmidt ; Dr. Roemer ; Señor Longinos Navas ; Mr. H. Wagner ; Mr. W. H. Whitelock ; Mr. A. Grouvelle ; Dr. H. W. van der Weele ; Mr. W. Schaus ; Mr. Isaac B. Ericson ; Prof. J. J. Gillet ; Mr. C. L. Boulenger ; Prof. T. D. A. Cockerell ; Prof. Dr. J. J. Kieffer ; and Prof. C. Aurivillius.

Of fossils and casts of fossils—to the University of St. Andrews ; University College, London ; Bristol Museum ; Radcliffe Museum ; Mr. G. G. Dixon ; and Prof. W. J. Sollas.

Of mineral specimens and casts—Kelvingrove Museum, Glasgow; Prof. Joly, Dublin University; Messrs. Wernher, Beit & Co.; Mr. Alexander Knaus; Dr. D. Mawson; and Mr. J. S. Neil.

Of botanical specimens—to Bristol Museum.

(N.B.—All the *individuals* named have presented specimens or otherwise benefited the Museum.)

Publications.

The following works on Natural History have been published during the year :—

Catalogue of the Books, Manuscripts, Maps, and Drawings in the British Museum (Natural History). Vol. III., L-O. Pp. 1039–1494. 4to. £1.

National Antarctic (Discovery) Expedition, 1901–4. Natural History. Vol. V. Zoology and Botany. Six memoirs by various authors. Pp. ix., 212; 28 plates, 19 text-figures. 4to. £1 10*s*.

Monograph of the Okapi. By Sir E. Ray Lankester, K.C.B., &c. Atlas, compiled with the assistance of W. G. Ridewood, D.SC. 48 plates, with xxii. pp. of Explanations, &c. 4to. £1 5*s*.

Catalogue of the Marine Reptiles of the Oxford Clay. Based on the Leeds Collection in the British Museum (Natural History). Part I. By C. W. Andrews, D.SC., F.R.S. Pp. xxiii., 205; 94 text-figures, 11 plates. 4to. £1 5*s*.

Monograph of the Culicidæ, or Mosquitoes. Vol. V. By Fred V. Theobald, M.A. Pp. xv., 646; 6 plates, 261 text-figures. 8vo. £1 5*s*.

Catalogue of Lepidoptera Phalænæ (Moths) in the British Museum. By Sir G. F. Hampson, Bart. :—

Vol. IX. Catalogue of the Noctuidæ (Acronyctinæ, III.). Pp. xv., 552; 247 text-figures. 8vo. 15*s*.

———— Atlas of 11 coloured plates. 8vo. 12*s*.

Vol. X. Catalogue of the Noctuidæ (Erastrianæ). Pp. xix., 829; 214 text-figures. 8vo. £1.

Synonymic Catalogue of Orthoptera. By W. F. Kirby. Vol. III. Orthoptera Saltatoria, Part II. (Locustidæ vel Acridiidæ.) Pp. vii., 674. 8vo. £1.

Catalogue of British Hymenoptera of the Family Chalcididæ. By C. Morley. Pp. 74. 8vo. 3*s*. 6*d*.

Flora of Jamaica, containing descriptions of the Flowering Plants known from the Island. By W. Fawcett, B.SC., F.L.S., and A. B. Rendle, D.SC., F.R.S. Vol. I. Orchidaceæ. Pp. xx., 150. 32 plates. 8vo. 10*s*. 6*d*.

Guide to the British Vertebrates exhibited in the Department of Zoology. By W. P. Pycraft. Pp. iv., 122; 26 text-figures, 1 plan. 8vo. 1*s*.

Guide to the Crustacea, Arachnida, Onychophora, and Myriopoda exhibited in the Department of Zoology. By W. T. Calman, D.Sc., A. S. Hirst, and F. J. Bell. Pp. 133. 90 text-figures. 8vo. 1*s.*

Guide to Mr. W. G. Smith's Drawings of Field and Cultivated Mushrooms, and Poisonous or Worthless Fungi often mistaken for Mushrooms, exhibited in the Department of Botany. Pp. 24; 2 plates, containing 28 coloured figures; 4 text-figures. 8vo. 1*s.*

New editions have been issued of the following Guide-Books:—

Guide to the Gallery of Birds in the Department of Zoology. By W. R. Ogilvie-Grant. Second edition. Pp. iv., 228; 25 plates, and 7 text-figures. 4vo. 2*s.* 6*d.*

Guide to the Fossil Reptiles, Amphibians, and Fishes in the Department of Geology and Palæontology. Ninth edition. By A. S. Woodward, LL.D., F.R.S. Pp. xviii., 110; 8 plates and 116 text-figures. 8vo. 9*d.*

Introduction to the Study of Minerals, with a Guide to the Mineral Gallery. By L. Fletcher, M.A., F.R.S. Thirteenth Edition. Pp. 123; 41 woodcuts, 1 plan. 8vo. 6*d.*

Special Guide, No. 4.—Memorials of Charles Darwin. Second edition. By W. G. Ridewood, D.Sc. Pp. vi., 50; 2 plates. 8vo. 6*d.*

Selections of the natural history publications of the Museum have been sent to Free Libraries and other institutions in Great Britain and Ireland, to Colonial, Indian, and foreign Museums, Libraries, and Scientific Societies, and to a number of persons who have benefited the Museum by helping in the preparation of the volumes, or in other ways; and additions have been made to the publications-exchange list.

The undermentioned works are in preparation:—

Catalogue of the Library, Vol. VI.

National Antarctic (Discovery) Expedition, 1901–4. Natural History, Vol. VI.

Catalogue of Bats, by Dr. Knud Andersen.

Catalogue of Birds' Eggs, Vol. V., by W. R. Ogilvie-Grant.

Catalogue of Mammals of Western Europe, by Gerrit S. Miller.

Catalogue of the Fresh-water Fishes of Africa, Vol. III., by G. A. Boulenger, F.R.S.

Illustrations of Asiatic Blood-sucking Flies, with text by E. E. Austen.

Handbook of the Tsetse-Flies, by E. E. Austen, with plates by A. J. Engel Terzi.

Catalogue of Moths, Vol. XI., by Sir G. F. Hampson, Bart.

Catalogue of Polychæte Worms, by Dr. J. H. Ashworth.

Catalogue of Marine Reptiles of the Oxford Clay, Part II., by Dr. C. W. Andrews, F.R.S.

Catalogue of Fossil Fishes, Part V., by Dr. A. S. Woodward, F.R.S.

Monograph of Mycetozoa, by A. Lister, F.R.S. New edition, revised and enlarged.

Flora of Jamaica, by W. Fawcett, Vol. II.

Catalogue of the Sloane Herbarium, by J. Britten.

General Library.

The additions to the General Library during the past year have been:—

By purchase - - -	318 volumes.
By transfer from other Departments - - -	15 volumes.
By donation - - -	625 volumes, 22 maps, and 46 photographs.
Total - -	958 volumes, 22 maps, and 46 photographs.

All the volumes and maps have been catalogued, press-marked, and put in their places; 578 volumes have been bound in 332, and none have been repaired.

The extent of the collection on the 31st of December was 39,954 volumes, 5,699 maps, and 525 photographs (not including those in the Owen Collection of Drawings, &c.).

The accessions to the Departmental Libraries have also been catalogued as they came in, and duplicate transcripts of the titles have been returned with the books.

Altogether 2,580 title-slips have been written, 447 re-written, and 3,602 revised (independently of those prepared for printing).

There are now, on a rough estimate, 87,932 volumes (exclusive of continuations and minor separate items) and 6,031 maps in the whole building.

The printing of the Catalogue was proceeded with, Vol. III. (L–O) was issued, and the work at the end of the year stood as follows:—

No. of sheets passed for press (A—Penn) - -	193
No. of title-slips set up in type (A—Popp) - -	45,496

A list of "Place-Numbers of the Societies and other Corporate Bodies issuing Serial Publications, and of the independent Periodical Publications, with an alphabetical Index of the Places of Publication," was prepared, printed, and issued for the use of the staff of the Museum.

The number of visits paid to the Library during the year by students and others (irrespective of the staff and persons to whom the use of a key is granted) was 2,177.

INDEX MUSEUM AND MORPHOLOGICAL COLLECTIONS.

All the dissections exhibited in the Central Hall have been examined during the course of the year; 17 glass vessels have been refilled with alcohol, and 14 dissections and 7 dry preparations have been remounted, and 8 new preparations have been added, including dissections of parts of Manatee, Porpoise and Whale.

A model of the Common House Fly (*Musca domestica*), enlarged to the same extent (28 diameters) as those of the Tsetse Fly and Mosquitoes already exhibited, has been made and placed on a special table in the middle of the Hall, together with actual specimens of the four species of Fly commonly found in houses. Models of the larva and pupa of *Musca domestica* will be added in due course.

The series of 153 Insects exhibiting Mimetic Resemblance has been revised and listed.

In consequence of the continued interest taken by the public in the series of 251 specimens and groups of specimens brought together in 1909 in commemoration of the centenary of the birth of Charles Darwin and the 50th anniversary of the publication of "The Origin of Species," this series, known as the "Darwin Exhibition," has been allowed to remain intact during the year. A second edition of the Special Guide Book "Memorials of Charles Darwin" was published on March 3rd 1910.

A set of some 150 animals and parts of animals has been selected and arranged as a preliminary or trial series for an "Index Case," to explain the general classification of the animal kingdom, and to indicate in what part of the Museum a visitor may find any particular group of animals he may wish to study. The series, being but a tentative one, is not yet on exhibition.

In the Economic Series in the North Hall 6 additions have been made, 108 specimens have been remounted in alcohol, and 129 labels have been redrafted and typewritten.

In the Arthropod Gallery one new dissection has been introduced, and 6 specimens in alcohol have been remounted.

Two new preparations in alcohol have been added in the Shell Gallery.

In the Whale Gallery a model of the ear of *Balænoptera* has been added.

L. Fletcher,
Director.

British Museum (Natural History),
25 February, 1911.

Department of Zoology.

I.—*Arrangement and Conservation.*

Mammalia.

Among the additions noted below, attention may be directed to the gift by Mr. Ivor Buxton of the type-specimen of a new species of Antelope from the Mountains of Gallaland. The remounting of the large male Orang-utan is also a noteworthy feature.

New cases fitted in the first bay on the right of the Upper Mammal Gallery have entailed a re-arrangement of the Bats; and further changes in this Gallery are now in progress in order to relieve the congestion in the gallery below. The Rodents have already been moved to the Upper Gallery; while in the Lower Gallery the Edentates have been transferred to one of the cases formerly occupied by the Rodents, and the Tapirs and the Rhinoceros heads and skulls have been shifted from the west end of the Gallery to a case further east. This has liberated a case at the West end for the expansion of the series of Oxen; and has also given additional room for the Carnivora on the South, and for the Deer on the North side. The descriptive and other labels in the galleries have been revised as occasion required, and many new ones added.

The additions to the exhibition series by presentation include the following specimens:—Three large photographs of Red Indian Chiefs, presented by the Southern Pacific Company. An Orang-utan, presented by Dr. Charles Hose. A Mona Monkey from the Zoological Society's Gardens. A White-fronted Langur, presented by O. Thomas, Esq. A Javan Tupai, or Tree-Shrew, presented by W. E. Balston, Esq. An African Hunting-Dog, the gift of the Hon. Gerald Legge. A Malay Tiger, the gift of D. Hay, Esq. A young Leopard-Seal, presented by Sir Ernest Shackleton. A Monk-Seal, from the Zoological Society's Menagerie. A Black Scaly-tailed Squirrel, presented by Rowland Ward, Esq. Two Pigmy Squirrels, the gift of O. Thomas, Esq., F.R.S. Two Canadian Beavers, presented by A. P. Leeston Smith, Esq. A Striped Mouse, a Crest-tailed Mouse, and two African Bamboo-Rats, the gift of C. D. Rudd, Esq. Head of Kenia Buffalo, presented by D. O. Roberts, Esq. Head of Kwilu Buffalo, presented by M. W. Hilton-Simpson, Esq. Horns of a Buffalo from Lake Chad district, presented by Dr. H. K. W. Kumm. Skull and horns of Siamese Tsaine, presented by A. A. Porter, Esq. Two skulls and horns of Burmese Tsaine, presented by H. R. Cook, Esq. Head of Sable Antelope, presented by G. J. Muir, Esq. A Kennion's and a Seistan Gazelle, the gift of Major R. L. Kennion. A Mongolian Gazelle, presented by Robert Hayne, Esq. A new Gazelle, presented by M. V. Hay, Esq. Head of White Bighorn

Sheep, presented by Staff-Surgeon C. R. Rickard. Horns of Waterbuck and Reedbuck, presented by Rowland Ward, Esq. The type-specimen of the Mountain Nyala (Spotted Kudu) and a Menelik's Bushbuck, presented by Ivor Buxton, Esq. Type antlers of the Tibetan Wapiti, presented by Rowland Ward, Esq. A Caucasian Red Deer, presented by the Duke of Bedford, K.G. A Bridgeman's Muntjac, presented by Lieut. the Hon. R. O. B. Bridgeman, R.N. Horn of a Black Rhinoceros from a well in Cape Colony, presented by S. Nicholson, Esq. A Cuscus, presented by Dr. E. Alves.

One or two preparations, illustrating the structure of Sirenia, have been prepared from a Manatee, presented by E. Salis Schwabe, Esq.; and have been placed in the Central Hall.

The only specimen of any importance acquired by purchase is the mounted head-skin, with the horns, of the type-specimen of the Northern race of the White Rhinoceros.

Whale-Room.—The work of replacing the stuffed skins of Dolphins by coloured plaster models has been continued as opportunity occurred; and several such models have been prepared and installed. Some specimens of ear-bones of Fin-Whales caught off the Coast of Mayo, and presented by D. G. Lillie, Esq., have been added to the case devoted to this part of the skeleton; and a model of the internal ear of a Rorqual has likewise been prepared and placed in the same case. A miniature model of an explosive whaling harpoon has been placed on exhibition on the East wall of the Gallery. A new case for Dolphin and other skulls has been erected at the South end.

The replacement of the above-mentioned Dolphin skins by models has set at liberty several table-cases, which have been utilised in the North Hall.

Specimens illustrating the food of Rorquals off the Coast of Mayo have been placed on the East wall, and a new explanatory label has been printed; the specimens were presented by Mr. Lillie. Plates of whalebone (belonging to two species of Whales), presented by the Oriental Whaling Co., Osaka, Japan, have been affixed to the wall on the opposite side of the room; while another specimen (pertaining to the Common Rorqual), presented by the same Company, has been placed in a case on the same side.

One or two dissections, illustrating the structure of Porpoises and Whales, have been placed in the Central Hall.

Study Series:—

The usual work of labelling, registering, and incorporating the mammals added to the collection has been continued.

Fifteen cabinets for storing medium-sized Mammal skins and two cabinets for the skins of small Mammals have been added, and placed in the New Mammal Room; the entire collection of Rodents (excepting the Hares and Rabbits) has been transferred into the new Room, and the collection, for the

most part, rearranged. A block of six new cabinets for storing medium-sized Mammal skins has been placed in the Upper Mammal Gallery.

The Department is again much indebted to volunteer helpers for valuable assistance in working out new forms of Mammals. The following gentlemen should be specially mentioned in this connection:—Mr. R. C. Wroughton, Dr. Knud Andersen, Mr. Wilfred Osgood, Mr. H. C. Robinson, Mr. Gerrit S. Miller, Major G. E. H. Barrett-Hamilton, and Mr. Ernst Schwarz.

A series of 48 Plates, with the necessary explanations, has been published as the Atlas to a Monograph of the Okapi. The Plates, which had been prepared for Sir E. Ray Lankester, K.C.B., F.R.S., at the time when he was Director of the Natural History Departments, were arranged for publication under his supervision, with the assistance of Dr. W. G. Ridewood.

The services of Dr. Knud Andersen have been continued for the preparation of the new Catalogue of Chiroptera.

Mr. Gerrit S. Miller has completed the manuscript of the Catalogue of the Mammals of Western Europe and the work is now in the printer's hands. The thanks of the Department are due to Mrs. Oldfield Thomas and Mr. R. C. Wroughton for assistance in preparing the lists of the specimens for this Catalogue.

A Guide to the British Vertebrates is noticed below, under "Aves."

The re-arrangement of the skeleton collection in the Osteological Room (old Whale-Room) has made great progress. All the larger groups of the Mammalia are now disposed of so as to permit of quick reference to any specimens that may be required. The vertebræ of several Whales have been suspended from the ceiling, thus economising the floor-space; while such portions of the skeletons as could not be suspended have been arranged in large drawers. These have been constructed in such a way as to utilise the space under a large platform set up near the windows in order to carry tables for the use of students.

The work of arranging the Anthropological Collections has been commenced.

Domesticated Animals.

The additions to the series in the North Hall include the following:—A Cocker Spaniel, presented by R. de C. Peele, Esq. A Pyrenean Guard-Dog, the gift of S. Mason, Esq. Skeleton of a Schipperke Dog, presented by Rowland Ward, Esq. An Irish Terrier, presented by H. E. Smith, Esq. Skull of Patagonian Dog, presented by J. A. Wolffsohn, Esq. A Skye Terrier, presented by Miss McCheane. Head of a King Charles Spaniel, the gift of Mrs. Pinto Leite. Skeleton of Thoroughbred Stallion "Persimmon," presented by H.M. King Edward VII. Skeleton of Thoroughbred Stallion "Ayrshire," presented by the Duke of Portland, K.G. Chartley Bull, presented by Colonel W. N. Congreve, V.C. Skull and horns of Hungarian Cow, presented by the Royal Hungarian Minister of

Agriculture. Skull and horns of Ngami Ox, presented by R. A. Bailey, Esq.

A Runner Drake, presented by J. W. Walton, Esq.

In order to make room for the new Chartley Bull, a re-arrangement of many of the cases was undertaken; while the release of several table-cases from the Whale-Room enabled the Sheep and the Models of Horses to be displayed to better advantage.

Aves.

The remounting of the series of Birds in the General Gallery has been continued and the old and faded specimens of the Families Conopophagidæ and Formicariidæ have been replaced by finely mounted examples, the work of Messrs. Rowland Ward.

The mounted series of Birds in the British Saloon has now been fully labelled; and species recently added to the British List have been represented.

The re-arrangement and re-labelling of the Gould collection of Humming-Birds has been continued during the year, and is nearing completion.

A "Guide to the British Vertebrates Exhibited in the Department of Zoology" has been published.

The preparation of the fifth volume of the "Catalogue of the Collection of Birds' Eggs" is now well advanced.

A series of lists of Birds needing protection in various British Colonies and Protectorates has been prepared.

A list of all the species of Birds has been arranged in three large volumes. It is intended to insert the number of the cabinet, drawer, etc., containing each species opposite the appropriate entry in one of these volumes. When this arrangement has been completed the exact position of any Bird in the study collection will be readily ascertainable, and much time will thus be saved.

All the large collections of eggs received during recent years have, with one exception, been registered and incorporated.

All the cabinets containing the study series have been re-numbered. Metal card-holders have also been fixed on the doors, showing at a glance the contents of each cabinet.

Great assistance has been received from Mr. David A. Bannerman, who has been engaged in working out Mr. A. B. Percival's collection from British East Africa and a very large collection from Southern Abyssinia formed by Mr. P. Zaphiro on behalf of Mr. W. H. Macmillan.

The whole of the Collection of Birds' Skeletons has been transferred to an ante-room in the basement, leading into the old Whale-Room, now the Osteological Room; this has

greatly increased their accessibility. The most important addition to this collection was the skeleton of the rare monkey-eating Eagle (*Pithecophaga jefferyi*) from the Philippines, the skin of which has been mounted and placed in the Bird Gallery.

Reptilia, Batrachia, Pisces.

The additions have been entered in the register and put away in the collection, so far as the crowded condition of the Spirit Building has permitted. A part of the Collection of Lizards has been rearranged and the second volume of the Catalogue of African Fresh-water Fishes has been completed. A partial rearrangement of the skins and skeletons of Reptiles and Fishes has been started.

The additions during the year to the exhibited series of Reptiles include the following:—A Smooth Snake, presented by G. B. Corbin, Esq. Three Indian Snakes, presented by Major Wall. Models of Common and Natterjack Toads, presented by Rowland Ward, Esq.

In the Fish Gallery, thirty-five additions have been made to the exhibited series, comprising thirty fishes, which have been mounted and tinted in their natural colours and five morphological preparations. Fifty-seven fishes have been re-varnished and eight have been repaired.

Sixty-five printed labels have been substituted for the temporary manuscript labels previously shown; and forty-six additions have been made to the card-catalogue of exhibited specimens.

A Guide to the British Vertebrates is noticed above, under "Aves."

Mollusca.

The large collection of Mollusca obtained by Professor J. Stanley Gardiner, F.R.S., in the Islands of the Indian Ocean has been examined and compared with the Report upon it by Mr. J. C. Melvill; and a selection has been made from it of 828 specimens. These have all been mounted, labelled and incorporated.

Another series from South Africa has been worked out and a report prepared for publication. The specimens belonging to the genus *Vulsella* have been critically examined and a paper written upon the subject. A selection has been made from a collection made at Bermuda by Major A. J. Peile; it has been partly determined and a list of the fauna has been in preparation. Collections of Marine shells from Queensland, *Physa* from South Australia, and specimens from Travancore received from the Trivandrum Museum, also some species of *Olivella*, *Fusus*, *Bulimus*, *Clausilia* and other genera have been identified. The specimens obtained by the late Mr. Stalker of the New Guinea Expedition at the Aru and Goram Islands have been named. The study collections of Chitonidæ and *Nassa* have

been partly re-arranged, the models of Nudibranchs have been remounted, and printed labels have been provided for some of the exhibited land shells in place of written ones. The work of the mounting, labelling, registration and incorporation of the numerous accessions to the collection has been performed as usual.

Part of the valuable collection of Indian Mollusca bequeathed by the late Dr. W. T. Blanford and that presented by Lieut.-Col. H. H. Godwin-Austen, F.R.S., have been examined by the latter, the identifications have been verified, the types marked, and the Museum series which have been selected have been placed in glass-topped boxes. Owing to the extent of these collections, the nature of the work connected with them, and the limited time at Colonel Godwin-Austen's disposal, it will be long before the arrangement can be completed.

Insecta.

In the Insect Gallery the exhibited series of Coleoptera and Lepidoptera have been completed, and progress has been made with the Rhynchota and Diptera for exhibition in the Table-Cases.

An enlarged model of the Common House-Fly has been prepared and placed in the Central Hall.

The books and periodicals dealing with Economic Entomology have been placed together in a book-case in the corridor, with the result that they are more conveniently situated for reference than formerly.

Slight structural alterations have been made in order to give access to Room J,* without having to pass through Room K,* the accommodation for cabinets in the latter room being thereby increased.

The rearrangement of the General Collection, for which additional accommodation had become necessary, has now been completed.

The most important event in the Insect Section has been the acquisition of the Walsingham Collection of Microlepidoptera (the smaller Moths), to which reference was made in the last Return. This collection, presented by Lord Walsingham, F.R.S., was transferred from Merton Hall to Cromwell Road on April 1st, and was placed in Room A. The collection consists of over 260,000 specimens contained in 16 cabinets, 582 large store-boxes, and several smaller ones. In addition to the collection, a large and very valuable library of Entomological books was presented, for which book-cases have been provided in the same room.

The COLEOPTERA have received an important addition during the year by the purchase of a portion of the Lewis Collection of Japanese and Ceylonese beetles. A small part

* The designations of these two rooms have been transposed during the year.

of the latter has already been labelled and incorporated. A re-arrangement of the Lucanidæ and Elateridæ has been proceeded with, and all accessions incorporated so far as the work has gone, including those contained in the Godman-Salvin, Fry and Sharp Collections. The Rhipiceridæ have been revised and fresh material from the Fry and Sharp Collections added; various small collections of Coleoptera have been incorporated in the General Collection. A large number of Aphodiinæ have been determined or described by Herr A. Schmidt of Berlin, and the group has been expanded and re-arranged. Series of undermined species of other groups have been similarly dealt with by Mr. I. B. Ericson (Trichopterygidæ), Mr. A. M. Lea (Curculionidæ) and Prof. J. J. Gillet (Copridæ), and have been re-incorporated. Others have been sent to, and are in process of determination by, Dr. Creighton Wellman (Meloidæ), Dr. Bernhauer (Staphylinidæ) and Dr. Fritz Ohaus (Rutelinæ). Lieut.-Colonel F. Winn Sampson has given a considerable amount of time to naming and arranging the collection of Scolytidæ in the Museum, and has also voluntarily undertaken to work out at his home some small and obscure species of special economic importance.

In the HYMENOPTERA the rearrangement of the Diploptera has been completed, and a commencement has been made with the Apidæ (bees); all accessions, including the numerous additions in the E. Saunders Collection, have been incorporated so far as progress has been made. The arrangement of the Ichneumonidæ (British Collection) has been completed, and that of the General Collection commenced. Large consignments of some Families have been sent on loan to specialists for determination, including Apidæ (Prof. T. D. A. Cockerell) and Evaniidæ (Prof. J. J. Kieffer). These have been properly labelled and re-incorporated on their return. Mr. R. E. Turner has generously continued to devote much of his time to the arrangement of the Sphegidæ (Sand Wasps), and has done much valuable work on the Family, as well as on other groups of the Order. Mr. Claude Morley has finished a Catalogue of British Chalcididæ, which was published during the year.

The third and final volume of the Catalogue of ORTHOPTERA has been published, and the entire collection has now been indexed in accordance with the Catalogue.

In the NEUROPTERA, the Nemopteridæ, which had been sent on loan to Señor Longinos Navás, have been returned and re-incorporated, and the Osmylidæ and Myrmeleonidæ (part) have been sent to the same specialist for identification.

In the RHYNCHOTA much work has been done at the Pentatomidæ and the Homoptera, Sub-families Acanaloniinæ and Flatinæ; the large collection presented by Mr. C. S. Banks has been worked out.

In the LEPIDOPTERA, an enormous addition has been made by Lord Walsingham's gift of his collection of Micro-lepidoptera, referred to above.

Further progress has been made with the transference of the Butterfly Collection to the glass-bottomed drawer cabinets, the following have been so dealt with, and accessions were incorporated at the same time :—

In the Papilionidæ : *Papilio* (part).

Pieridæ : *Teracolus, Terias, Leuceronia, Nepheronia, Mylothris, Catopsilia, Belenois,* and some smaller genera.

The arrangement of the groups Argynnidi and Melitæidi was proceeded with, and that of the Pierinæ begun.

During the year, Vol. IX. of the Catalogue of Moths has been published ; and the text of Vol. X., dealing with the Noctuid Sub-family Erastrianæ, has been passed through the press and published. The plates belonging to Vol. X. are not quite complete and will appear in February or March 1911.

The Noctuid Sub-family Erastrianæ has been re-arranged ; while the greater part of the Pyralid Sub-family Pyraustinæ and some other portions of the collection have been expanded and partially re-arranged and all accessions incorporated.

In the Microlepidoptera the Lavernidæ and Gelechiadæ have been re-arranged in connection with work on the Neotropical representatives of these Families now in progress. The whole of the Walsingham Collection has been carefully examined, and it has been found that no injury whatever has been sustained in transit.

In the DIPTERA the Neave Collection of Tabanidæ from the Congo Free State (Katanga District) and N.E. Rhodesia was worked out, and the portion of this collection belonging to the Sub-family Pangoninæ was described in a paper which was seen through the press.

The African Trypetidæ belonging to the *Ceratitis*-group were worked out, and a new genus described.

A large number of small collections of Blood-sucking and other Diptera, forwarded for identification from various parts of the world, especially Tropical Africa, were determined and incorporated, and a report on the collection was in each case furnished to the sender.

The preparation of a supplement to " A Monograph of the Tsetse-Flies " was commenced.

The completion of a model of the Common House-Fly (*Musca domestica*, L.) for exhibition in the Central Hall, was supervised, and a suitable explanatory label was drawn up for this exhibit. Supervision was given to the preparation of coloured drawings for publication in " Illustrations of Oriental Blood-Sucking Flies."

Vol. V. of the " Monograph of Mosquitoes " was completed by Mr. F. V. Theobald, and has been published during the year.

Entomological Research Committee.

Assistance in the determination of species and in other ways has been given by the members of the Staff to the Scientific Secretary of the Entomological Research Committee of the Colonial Office during the past year. When the work of this Committee had been well started and in progress for some time, it was found that the room originally provided for the accommodation of the Secretary was no longer adequate for the purpose. Two somewhat larger rooms, instead of this one, have now been given over for the use of the Secretary and Assistants. From the list of additions to the collection, it will be seen that the Museum has already benefited largely by its co-operation with the Research Committee; and it is anticipated that the benefits will become increasingly great as the work of the Committee progresses.

Prototracheata.

The exhibited specimens of Peripatus have been placed in a special wall-case; and in spite of the increasing congestion of specimens in the Spirit-building, the study collection has been re-arranged. The MS. catalogue of the specimens has been completed.

A Guide which refers partly to the Prototracheata (Onychophora) is noticed below, in the succeeding Section.

Myriopoda and Arachnida.

Nearly all the unnamed Scorpions and Pedipalpi have been determined, and the species which are new, or otherwise of interest, have been noted.

A large collection of Arachnida from the Seychelles has been worked out and incorporated in the collection; the report on this collection is ready for publication.

The undetermined specimens of the sub-order Palpatores have been sent to Dr. C. Fr. Roewer, of Bremen, who has described and figured many of them in the first part of his monograph.

The bottles containing the spirit collection of Arachnida have been cleaned and refilled with spirit, and progress has been made with the arrangement of the dry specimens of Arachnida.

Attention has also been paid to the collection of Myriopoda; and a number of centipedes and millipedes (chiefly belonging to the family Spirostreptidæ) have been determined.

A Guide to the Crustacea, Arachnida, Onychophora, and Myriopoda, exhibited in the Department of Zoology, was published during 1910.

Crustacea and Pycnogonida.

Some important additions have been made to the exhibited series of Crustacea, including a fine specimen of the large

Antarctic Crab, *Lithodes antarcticus*, presented by Mr. G. M. Hall, and a set of the larval stages of the Common Lobster, completing the exhibited series of its life-history. The number of acquisitions being considerably less than in 1909, it was possible to find space for them in the Crustacea Room by putting up a second temporary cupboard, without greatly disturbing the order of the collection. During the year a considerable part of the dry collection has been re-pinned and the specimens cleaned and repaired.

Lt.-Col. A. Alcock, F.R.S., has been good enough to revise the collection of Indian River-crabs, and the specimens have been re-labelled and arranged according to his determinations.

The working out of the collection of Cumacea belonging to the Copenhagen Museum has been completed, and the collection returned after selection of a very valuable series of duplicates, chiefly co-types of new species.

A Guide which refers partly to the Crustacea and Pycnogonida is noticed under the preceding heading.

Echinoderma.*

Opportunity has been taken from time to time to re-spirit parts of the collection.

Most of the specimens obtained during the year have been determined.

The exhibited specimens of Bêches-de-Mer have been completely re-arranged and fresh descriptive labels have been prepared.

The dried study collection of Echinoderms is being entirely re-arranged, and it is hoped that space sufficient for ten years' additions will be obtained by this means.

Worms.

Dr. J. H. Ashworth has continued his preparation of the Catalogue of Arenicolidæ.

The exhibited series of Gephyrea have had their names brought up to date; and a MS. Catalogue of the described species and of the specimens in the collection has been prepared.

A fine Nemertean worm (*Lineus corrugatus*) has been mounted and exhibited.

The systematic re-arrangement of the collection of microscopic slides has made some progress.

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* The Assistant in charge of this and other groups has the responsibility of editing the "Discovery" Reports. Of this series, Vol. V. appeared during the year; while Vol. VI., which is expected to complete the publication, is in preparation,

Anthozoa, Hydrozoa and Porifera.

A MS. Catalogue of Pennatulids, including the described species and the specimens in the collection, is in course of preparation.

Collections of Hydrozoa from the Mediterranean and the West Indies have been examined and sorted. Mr. J. Ritchie has described thirteen specimens of Hydroids, collected at Christmas Island, Indian Ocean, by Dr. C. W. Andrews.

Collections of Sponges from the Mediterranean, West Indies, and Antarctic Ocean have been examined and sorted.

Much progress has been made with the conserving, labelling and incorporating of the Norman Collection of Sponges.

A detailed report (with 7 plates) on *Merlia normani*, a Sponge with a siliceous and calcareous skeleton, has been completed.

A report on a remarkable Pharetronid Sponge (*Murrayona phanolepis*), collected by Dr. C. W. Andrews at Christmas Island, has been published in the "Proc. Roy. Soc. London."

The Trustees granted 45 days' leave to Mr. Kirkpatrick for the purpose of dredging off Christmas Island. Many sponges were obtained, including examples of *Murrayona phanolepis* and *Astrosclera willeyana*.

II.—*Duplicates and Exchanges.*

(*a*) *Duplicates.*

Duplicates have been distributed amongst museums, scientific institutions, &c., as follows :—

Mammalia.—Canterbury Museum, Christchurch, New Zealand ; South African Museum, Cape Town ; American Museum of Natural History, New York ; University Museum, Oxford.

Aves.—North Staffordshire Field Club Museum, Hanley ; Manchester Museum ; University Museum, Oxford ; South African Museum, Cape Town ; Canterbury Museum, Christchurch, New Zealand ; American Museum of Natural History, New York.

Pisces.—Indian Museum, Calcutta ; Museum of the Training Ship "Worcester."

Mollusca.—Royal Scottish Museum, Edinburgh (with other duplicates) ; Mr. W. H. Whitelock.

Insecta.—Duplicates have been sent to the following gentlemen who have assisted in naming specimens :—Professor Ch. Aurivillius, Dr. Max Bernhauer, Professor T. D. A. Cockerell, Mr. Isaac B. Ericson, Professor J. J. Gillet, M. A. Grouvelle, Professor J. J. Kieffer, Señor R. P. Longinos Navás, S.J., Herr Adolf Schmidt, Herr C. Sternberg, Herr Hans Wagner, Herr H. W. van de Weele.

Arachnida.—A few duplicates have been given to Dr. P. C. F. Roewer, in return for his services in naming specimens.

(*b*) *Exchanges.*

Exchanges have been made with the following institutions and individuals :—

Mammalia.—With the Museum of Comparative Zoölogy, Harvard College, Boston, Mass.; the Berlin Museum; and Dr. Lyster Jameson.

Aves.—With the Kuala Lumpur Museum, Straits Settlements; Mr. H. K. Coale; Mr. G. M. Mathews; and Lt.-Commander R. E. Vaughan, R.N.

Insecta.—With the Indian Museum, Calcutta; the Auckland Museum, New Zealand; the College of Agriculture, Tohoku Imperial University, Sapporo, Japan; and with Dr. M. Cameron, Herr C. Felsche, Professor H. Kolbe, Mr. A. M. Lea (Government Entomologist, Hobart, Tasmania), and Mr. W. Schaus.

Myriopoda.—With Professor F. Silvestri.

Crustacea.—With the Indian Museum, Calcutta; and with Professor E. Bouvier.

Porifera.—An exchange of Antarctic specimens was made with the late Professor E. van Beneden, in addition to that recorded in the last Report.

III.—*Departmental Library.*

The additions to the Library, acquired during the year by purchase, presentation, and exchange, consist of 93 separate works in 110 volumes, and 1,612 parts of periodicals and works in progress.

Two hundred and twenty-six volumes have been bound, but of these only 140 are now added to the total number of volumes in the Library, the rest being merely bound for the first time or re-bound and already included in totals of previous years.

The work of collating, stamping, press-marking and entering in the Catalogue all acquisitions has been performed as usual.

The Attendant in the Library, with the aid and supervision of an Assistant, has checked the zoological works in the proofs of that portion of the General Catalogue of Books which has been printed during the year.

Among the donations two are specially worthy of mention :—One hundred and forty-six folios of drawings of Chinese Fishes made by native artists under the direction of John Reeves, Esq., in the early part of last century. Upon these drawings Dr. John Richardson founded his report on the Ichthyology of the Seas of China and Japan; presented by Dr. A. Günther, F.R.S.

Thirty-nine volumes of the Proceedings of the Zoological Society and three volumes of Indexes; presented by Oldfield Thomas, Esq., F.R.S.

The following is a list of Donors to the Departmental Library during 1910:—

Agricultural Experiment Station, Formosa.
Agricultural Research Institute, Pusa, Bengal.
Australian Museum, Sydney.
Avicultural Society, London.
Board of Agriculture and Fisheries, London.
Board of Fisheries, New South Wales.
Botanic Gardens, Singapore.
British Ornithologists' Club, London.
Colombo Museum, Ceylon.
Conchological Society of Great Britain and Ireland.
Conseil permanent International pour l'Exploration de la Mer.
Crick, G. C.
Département de l'Agriculture, Buitenzorg.
Department of Agriculture, Alberta, Canada.
Department of Agriculture, Cape of Good Hope.
Department of Agriculture, New South Wales.
Department of Agriculture, New Zealand.
Department of Agriculture, Victoria.
Department of Agriculture and Technical Instruction, Ireland.
Department of Commerce and Labor, Washington.
Deutsche Zoologische Gesellschaft, Leipzig.
Dominion Museum, Wellington, New Zealand.
Entomological Research Committee, London.
Entomological Society, London.
Fisheries Bureau, Madras.
Fishery Board for Scotland.
Forbes, W. T. M.
Foreign Bird Club, Ashborne.
Froggatt, W. W.
Gahan, C. J.
Goette, Prof. Dr. A.
Gude, G. K.
Günther, Dr. A.
Hampson, Sir. G. F., Bart.
Harmer, Dr. S. F.
Hawaiian Sugar Planters' Association.
Imperial Department of Agriculture, West Indies.
India, Secretary of State for.
Indian Museum, Calcutta.
James, S. P.
Kommissionen for Havundersögelser, Kjöbenhavn.
Laboratorio di Zoologia Generale e Agraria della R. Scuola Superiore d'Agricoltura in Portici.
Linnean Society, London.
Marelli, C. A.

Meek, Prof. A.
Montana Agricultural Experiment Station.
Musée Zoologique . . . de St.-Pétersbourg.
Museo Civico di Storia Naturale, Genova.
Museu Goeldi, Pará, Brazil.
Museum of Comparative Zoölogy, Harvard College.
National Association of Audubon Societies, New York.
Nederländische Entomologische Vereeniging.
New Mexico College of Agriculture, &c., Santa Fé.
Norman, Rev. Canon A. M.
Pace, S.
Pennsylvania, University of.
Poulton, Prof. E. B.
Provincial Museum, Victoria, B. C.
Ridley, H. N.
Roewer, Dr. C. F.
Sars, Prof. G. O.
Sasaki, Prof. C.
Schuster, G.
Sherborn, C. D.
Silvestri, Prof. F.
Smith, J. B.
Société Entomologique de Belgique.
Société Entomologique de France.
Société Entomologique de Russie.
South African Central Locust Bureau, Pretoria.
Superintendent of Government Printing, Calcutta, India.
Thomas, O.
Tufts College, Mass.
Ungarische Ornithologische Centrale, Budapest.
United States Department of Agriculture, Washington.
Ward, Rowland
Wistar Institute, Philadelphia.
Zoological Gardens, Giza, Egypt.
Zoological Museum, Copenhagen.
Zoological Society, Ireland.
Zoological Society, London.
Zoological Society, New York.
Zoological Society, Tokyo, Japan.
Zoologischer Garten, Frankfurt a. Main.
Zoologisches Museum, Berlin.
Zoologische Staatssamlung, München.

IV.—*Publications.*

In addition to the official Catalogues and other volumes published by the Trustees (*see* pp. 114, 115), various reports and descriptive papers have been prepared in connection with the different branches of the collection; and have been published for the most part in scientific journals.

For convenience of reference the following list is appended :—

Mammalia.

By OLDFIELD THOMAS, F.R.S. :—

"New African Mammals." Ann. Mag. Nat. Hist. (8) v., p. 83.

"Further New African Mammals." *Ib.*, p. 191.

"A Collection of Mammals from Eastern Buenos Ayres, with Descriptions of related new Mammals from other Localities." *Ib.*, p. 239.

"Further new African Mammalia." *Ib.*, p. 282.

"A new Chinese Mole of the Genus *Scaptochirus*." *Ib.*, p. 350.

"Three new West African Mammals." *Ib.*, p. 351.

"New Mammals from the E. Indian Archipelago." *Ib.*, p. 383.

"Three new African Rodents." *Ib.*, p. 419.

"Two new Mammals from the Malay Peninsula." *Ib.*, p. 424.

"Three new Asiatic Mammals." *Ib.*, p. 534.

"A new Genus of Fruit-Bats, and two new Shrews from Africa." *Ib.*, vi., p. 111.

"Mammals from the River Supinam, Demerara, presented by Mr. F. V. McConnell to the British Museum." *Ib.*, p. 184.

"Notes on African Rodents." *Ib.*, p. 221.

"List of Mammals from Mt. Kilimanjaro, obtained by Mr. Robin Kemp and presented to the British Museum by Mr. C. D. Rudd." *Ib.*, p. 308.

"A new Potto from British East Africa." Proc. Zool. Soc., 1910, p. 536.

"New African Mammals in the British Museum." Ann. Mag. Nat. Hist. (8) vi., p. 426.

"A new Monkey from the Malay Peninsula." Proc. Zool. Soc., 1910, p. 634.

"A collection of small Mammals from China." *Ib.*, p. 635.

"On Mammals collected in Ceará, N.E. Brazil, by Fräulein Dr. Snethlage." Ann. Mag. Nat. Hist. (8) vi., p. 500.

"Four New South African Rodents." *Ib.*, p. 503.

"New Genera of Australasian *Muridæ*." *Ib.*, p. 506.

"The Generic Arrangement of the Australian Murines hitherto referred to '*Mus.*'" *Ib.*, p. 603.

"New Australian Muridæ of the Genus *Pseudomys*." *Ib.*, p. 607.

"A new Genus for *Dactylopsila palpator*." *Ib.*, p. 610.

By OLDFIELD THOMAS and R. C. WROUGHTON :—

"Ruwenzori Expedition Reports—17 Mammalia." Trans. Zool. Soc., xix., Part v., March 1910.

MAMMALIA—*continued.*

By GUY DOLLMAN :—
"New African Mammals."
Ann. Mag. Nat. Hist. (8) v., p. 92.
"On a Collection of Mammals made by Mr. S. A. Neave, during his Expedition in Northern Rhodesia."
Ib., p. 173.
"Descriptions of new Forms of *Cercopithecus* and *Graphiurus* from British East Africa." *Ib.*, p. 202.
"Two new Species of African Dormice belonging to the genus *Graphiurus*." *Ib.*, p. 285.
"Two New African Mammals." *Ib.*, vi., p. 226.
"A List of the Mammals obtained by Mr. R. B. Woosnam during the Expedition to Lake Ngami, with Field-Notes by the Collector." *Ib.*, p. 388.
"A Note on *Alouatta discolor* of Spix." *Ib.*, p. 422.

By R. C. WROUGHTON :—
"New African Mammals of the Genera *Cricetomys* and *Procavia*." *Ib.*, v., p. 106.
"Some Servals and an *Otomys* from East Africa."
Ib., p. 205.
"Two new Duikers related to *Cephalophus abyssinicus* and a new *Dendromus* from Mt. Elgon." *Ib.*, p. 273.
"African Gerbils of the Genera *Tatera* and *Taterillus*."
Ib., vi., p. 291.
"On the Nomenclature of the Indian Hedgehogs."
Journ. Bombay Nat. Hist. Soc., June 1910, p. 80.

By R. LYDEKKER, F.R.S. :—
"Hornless Okapis." Ann. Mag. Nat. Hist. (8) vi., p. 224.
"On a Wapiti and a Muntjac."
Proc. Zool. Soc., 1910, p. 987.
"On Three African Buffaloes." *Ib.*, p. 992.

By Dr. KNUD ANDERSEN :—
"Preliminary Description of a New Genus of Epomophorine Bats." Ann. Mag. Nat. Hist. (8) v., p. 97.
"On some Species of the Genus *Epomops*." *Ib.*, p. 99.
"Ten New Fruit Bats of the Genera *Nyctimene*, *Cynopterus* and *Eonycteris*." *Ib.*, vi., p. 621.

By WILFRED H. OSGOOD :—
"Eight New African Rodents." *Ib.*, v., p. 276.

By A. CABRERA :—
"On Two new Carnivora from North-East Africa."
Ib., vi., p. 461.

By Dr. EINAR LÖNNBERG :—
"The British Roedeer (*Capreolus capreolus thotti*), a preliminary Diagnosis." *Ib.*, p. 297.

By Major G. E. H. BARRETT-HAMILTON :—
"Descriptions of a new Species and a new Sub-Species of European Bats." *Ib.*, v., p. 291.

MAMMALIA—*continued.*

By ERNST SCHWARZ :—

"On the Wallabies usually referred to *Macropus agilis*, Gould." *Ib.*, p. 164.
"Two new Oriental *Viverridæ*." *Ib.*, vi., p. 230.
"Die Grossen Kanguruhs und ihre Geographischen Formen." Novitates Zoolog., xvii., Mar. 1910, p. 85.

Aves.

By W. R. OGILVIE-GRANT :—

"On a rare Weaver Bird (*Othyphantes batesi*)." Ibis, 1910, p. 435.
"Remarks on the Natural History of British Game-Birds." British Birds, iii., p. 347.
"Boyd Alexander and his Ornithological Work." Ibis, 1910, p. 716.
"A List of British Birds." Witherby & Co., 1910.
"The late Richard Bowdler Sharpe." Bull. B. O. C., xxv., p. 43.
"On the impossibility of distinguishing the sex of the Woodcock by external characters." *Ib.*, p. 34.
"The breeding of the Slavonian Grebe in Scotland." *Ib.*, p. 75.
"A new species of Weaver-Finch (*Ortygospiza ansorgei*)." *Ib.*, p. 84.
"Four new species of Birds from Ceram collected by the late Mr. W. Stalker." *Ib.*, p. 90.
"Two new species (*Turdinulus davisoni* and *Sibia wrayi*) from the Malay Peninsula." *Ib.*, p. 97.
"On certain species of *Eremomela*, with a description of a new species from South Africa." *Ib.*, p. 120.
"A new species of Fan-Tail Warbler (*Cisticola kalahari*) from British Bechuanaland." *Ib.*, p. 121.
"On the seasonal changes of plumage in the Red Grouse (*Lagopus scoticus*)." *Ib.*, p. 122.
"Description of the male of *Francolinus camerunensis*, Alexander." *Ib.*, p. 125.
"On a collection of Birds from Western Australia, with field-notes by G. C. Shortridge, Part II." Ibis, 1910, p. 156.
"Expedition of the British Ornithologists' Union to the Snow Mountains of New Guinea, Parts I.–VII." Country Life, Pt. I., 26th March, 1910; Pt. II., 16th April; Pt. III., 30th April; Pt. IV., 4th June; Pt. V., 20th August; Pt. VI., 5th November; Pt. VII., 17th December.
"A new species of Crombec (*Sylviella chubbi*), from N.W. Rhodesia." Bull. B. O. C., xxvii., p. 10.
"On the stages of plumage in the Cormorants." *Ib.*, p. 22.
"A new species of Flycatcher (*Stizorhina grandis*) from British East Africa collected by Mr. Robin Kemp." *Ib.*, xxv., p. 30.

AVES—*continued.*

"A new species of Coal Titmouse (*Parus hibernicus*) from Ireland." *Ib.*, p. 36.

"On the eclipse plumage of the Harlequin Duck (*Cosmonetta histrionica*)." *Ib.*, p. 38.

"Bulletin of the British Ornithologists' Club, Volumes XXV., XXVI. (Report of the immigrations of our Summer Residents), and XXVII. (edited).

By W. P. PYCRAFT:—

"The late Richard Bowdler Sharpe." Proc. Linn. Soc., 1910, p. 98.

"The Larks." The British Bird Book, p. 205.

"A History of Birds." Methuen & Co.

"The Natural History Museum." Wells, Gardner Danton & Co.

By C. CHUBB:—

"On the Birds of Paraguay." Ibis, part i, p. 53; part ii, p. 263; part iii, p. 517; part iv, p. 571.

Reptilia and *Batrachia.*

By G. A. BOULENGER, F.R.S.:—

"Remarks on Prof. L. von Méhely's recent contribution to the knowledge of the Lizards allied to *Lacerta muralis.*" Ann. Mag. Nat. Hist. (8) v., p. 247.

"Descriptions of four new African Snakes." *Ib.*, 512.

"On the Ophidian Genus *Grayia.*" Proc. Zool. Soc., 1909, p. 944.

"A revised list of the South African Reptiles and Batrachians." Ann. S. Afr. Mus. v., p. 455.

Pisces.

By G. A. BOULENGER, F.R.S.:—

"Descriptions of three new Freshwater Fishes from West Africa." Ann. Mag. Nat. Hist. (8) vi., p. 424.

"On a large collection of Fishes made by Dr. W. J. Ansorge in the Quanza and Bengo Rivers, Angola." *Ib.*, p. 537.

By C. TATE REGAN:—

"The Asiatic Fishes of the Family Anabantidæ." Proc. Zool. Soc. 1909, p. 767.

"The Caudal Fin of the Elopidæ." Ann. Mag. Nat. Hist. (8) v., p. 354.

"On the Caudal Fin of the Clupeidæ and the Teleostean Urostyle." *Ib.*, p. 531.

"The Anatomy and Classification of the Teleostean Fishes of the Order *Zeomorphi.*" *Ib.*, vi., p. 481.

"The Origin and Evolution of the Teleostean Fishes of the Order Heterosomata." *Ib.*, p. 484.

Mollusca.

By E. A. SMITH, I.S.O.:—

"Note on an abnormal specimen of *Nautilus pompilius.*" Proc. Malac. Soc., ix., p. 4.

MOLLUSCA—*continued.*

"Note on the egg-capsules of *Melo*." *Ib.*, p. 4.
"Notes on the Genus *Erato*, with a list of the known recent species." *Ib.*, p. 13.
"Note on the very young stage of the Genus *Humphreyia*." *Ib.*, p. 23.
"Description of *Thersites* (*Glyptorhagada*) *hillieri*, n. sp., from South Central Australia." *Ib.*, p. 26.

Insecta.

By C. J. GAHAN:—
"Notes on Cleridæ and descriptions of some new Genera and Species." Ann. Mag. Nat. Hist. (8) v., p. 55.

By GILBERT J. ARROW:—
"On a few new Bornean Beetles of the Rutelid Genera *Mimela* and *Anomala*." *Ib.*, vi., p. 64.
Descriptions of numerous new species of Cetoniinæ and Dynastinæ. ("Fauna of British India.")

By Sir G. F. HAMPSON, Bart.:—
"Moths of India. Supplement."
Journ. Bomb. Nat. Hist. Soc., 1910, p. 83.
"Zoological Collections from Northern Rhodesia and adjacent Territories." "Moths."
Proc. Zool. Soc. Lond., 1910, p. 388.
"New African Moths."
Ann. Mag. Nat. Hist. (8), v., pp. 430, 465; vi., pp. 116, 145.

By GEOFFREY MEADE-WALDO:—
"New Species of Diploptera in the Collection of the British Museum." Part I. and Part II.
Ib., (8) v., p. 30; vi., p. 100.

By ROWLAND E. TURNER:—
"Notes on Fossorial Hymenoptera. II."
Ib., vi., p. 72.
"Beiträge zur Kenntniss der Hymenopterenfauna von Paraguay. II."
Zoolog. Jahrb. Abt. Syst., xxix., p. 179.
"Additions to our Knowledge of the Fossorial Wasps of Australia." Proc. Zool. Soc., 1910, p. 253.

By E. E. AUSTEN:—
"A new Indian Species of *Musca*."
Ann. Mag. Nat. Hist. (8) v., p. 114.
"Some Dipterous Insects which cause Myiasis in Man."
Trans. Soc. Trop. Med. and Hygiene, iii., p. 215.
"A new Genus and two new Species of African Fruit Flies." Bull. Ent. Research, I., p. 71.
"A new Species of *Cordylobia*, a genus of African Diptera (Family *Tachinidæ*, sub-family *Calliphorinæ*), the Larvæ of which are subcutaneous parasites in Man and other Animals." *Ib.*, p. 79.

INSECTA—*continued.*

"New African Phlebotomic Diptera in the British Museum (Natural History), Part VII. Tabanidæ (continued)."
Ann. Mag. Nat. Hist. (8) vi., p. 337.

By W. L. DISTANT:—
"Rhynchota Philippinensia, I."
Phil. Journ. Sci. V., p. 57.
"Rhynchotal Notes L.":—"Sub-families Acanaloniinæ and Flatinæ." Ann. Mag. Nat. Hist. (8) v., p. 297.
"LI. African Pentatomidæ." *Ib.*, vi., pp. 77, 212.
"LII. Australasian Pentatomidæ."
Ib., pp. 369, 465, 485.
"Rhynchota Malayana."
Records Indian Museum, v., p. 313.

Arachnida.

By A. S. HIRST:—
"On a new Genus and Species of the Order Solifugæ from Algeria." Ann. Mag. Nat. Hist. (8) vi., p. 367.

By A. S. HIRST and L. F. HIRST:—
"Descriptions of five new Species of Ticks (Ixodidæ)."
Ib., p. 299.

The following papers are based, to a large extent, on British Museum material:—

By Dr. C. FR. ROEWER:—
"Revision der Opiliones Plagiostethi. I Teil; Familie der Phalangiidæ."
Abh. Gebiete Naturwiss, Hamburg, xix., p. 1.

By H. R. HOGG:—
"Some New Zealand and Tasmanian Arachnidæ."
Trans. New Zealand Inst., xlii., p. 273.

Crustacea.

By Dr. W. T. CALMAN:—
"On two new Species of Wood-boring Crustacea from Christmas Island."
Ann. Mag. Nat. Hist. (8) v., p. 181.
"Note on two Species of the Genus *Pandalus*."
Ib., p. 525.
"Les Cumacés des Expéditions du Travailleur et du Talisman." Bull. Mus. d'hist. nat., Paris, 1910, p. 180.
"On *Heterocuma sarsi*, Miers."
Ann. Mag. Nat. Hist. (8) vi., p. 613.

Anthozoa.

The following Memoir is largely based on material in the British Museum:—

By Miss R. HARRISON:—
"On some new Alcyonaria from the Indian and Pacific Oceans." Trans. Linn. Soc. (2) xi., p. 17.

Hydrozoa and *Porifera*.

By JAMES RITCHIE, M.A., B.Sc. :—

"Hydroids from Christmas Island, Indian Ocean, collected by C. W. Andrews, D.Sc., F.R.S."
Proc. Zool. Soc., 1910, p. 826.

By R. KIRKPATRICK :—

"The Hydrozoa and Porifera of St. Helena."
Ib., p. 127.

"On Hexactinellid Sponge Spicules and their names," Part I. and Part II."
Ann. Mag. Nat. Hist. (8) v., pp. 208, 347.

"Further Notes on *Merlia normani*." *Ib.*, p. 288.

"On the Affinities of *Astrosclera willeyana*, Lister."
Ib., p. 380.

"A Sponge with a Siliceous and Calcareous Skeleton."
Nature, May 19, 1910, p. 338.

"On a remarkable Pharetronid Sponge from Christmas Island." Proc. Roy. Soc., B. lxxxiii., p. 124.

"Preliminary notice on Hexactinellida of the Gauss Expedition." Zool. Anz., xxxv., p. 293.

By F. E. SCHULZE and R. KIRKPATRICK :—

"Die Hexactinelliden der deutschen südpolar-Expedition, 1901–1903."

V.—*Acquisitions.**

MAMMALIA.

The additions to this class during the past year number three thousand two hundred and fifty-nine, of which the following are most worthy of note :—

Special attention may be directed to the Rudd Collection from British East Africa, the Duke of Bedford's Collection from China, Mr. McConnell's Collection from British Guiana, the Mammals from Ngamiland presented by the Subscribers to the Lake Ngami Expedition Fund, the Collection from the Kei and Aru Islands presented by the Subscribers to the British Ornithologists' Union Expedition to Dutch New Guinea, and the remarkable new Antelope (*Tragelaphus buxtoni*) presented by Mr. Ivor Buxton. Further particulars of these specimens will be found below, under the respective Geographical sub-headings.

Europe.

Three Field Mice from Fair Island, Shetland Islands; *presented by Her Grace the Duchess of Bedford.*

Three Orkney Voles from Stromness, Orkney Islands; *presented by G. Ellison, Esq.*

Fifteen mammals from France, Roumania and Portugal; *presented by the Hon. N. C. Rothschild.*

* A table showing the number of specimens added during the year is given on page 156.

MAMMALIA—*continued.*

Fifteen mammals from Switzerland; *presented by Oldfield Thomas, Esq., F.R.S.*

Fifty-four mammals from Hungary; *presented by the Hon. Mrs. Charles Rothschild.*

Asia.

Three Wild Asses from Persia; *presented by R. C. Barker, Esq., and E. J. Blackman, Esq.*

Six mammals from Seistan; *presented by Major R. L. Kennion.*

Two Gazelles from Seistan; *presented by Capt. C. T. Daukes.*

Ninety mammals from S. E. Shensi, China, collected by Mr. M. P. Anderson; *presented by His Grace the Duke of Bedford, K.G., F.R.S.*

One hundred and eleven mammals from Hainan and Mantchuria.

Forty-one mammals from Japan and the Kuriles; *presented by the Hon. N. C. Rothschild.*

Sixty-seven mammals from Kashmir and the Punjab; *presented by Major H. N. Dunn.*

Eleven mammals from Gilgit, Kashmir; *presented by Capt. R. McCarrison.*

A Takin from Assam; *presented by Noel Williamson, Esq.*

Seven mammals from India; *presented by the Government of Bombay.*

Forty-one mammals from Northern India; *presented by Capt. C. H. T. Whitehead.*

A Monkey from Trivandrum; *presented by Lieut.-Col. F. W. Dawson.*

Five mammals from Upper Burma; *presented by C. H. Hobart, Esq.*

Two Burmese Tsaine skulls; *presented by H. R. Cook, Esq.*

A new sub-species of Tsaine from Siam; *presented by A. A. Porter, Esq.*

Two Monkeys from Ataran; *presented by G. F. B. R. Thurling, Esq.*

Seven mammals from Annam, collected by Dr. J. J. Vassal.

One hundred and seven mammals from the Malay Peninsula.

The type of a new Pen-tailed Tree Shrew from Kuala Lumpur; *presented by the Selangor Museum.*

Two hundred and thirty mammals from South Central Borneo and Kangean Island; *presented by Oldfield Thomas, Esq., F.R.S.*

An Orang-utan from Borneo; *presented by Dr. C. Hose.*

MAMMALIA—*continued.*

Africa.

Ten mammals from Egypt and the Sudan; *presented by the Egyptian Government Zoological Gardens.*

The head of a Giant Eland from Bahr-el-Ghazal; *presented by Prince Elim Demidoff, as Executor of Prince Paul Demidoff.*

Two mammals from Gallaland, including the type of a new Antelope (*Tragelaphus buxtoni*); *presented by Ivor Buxton, Esq.*

Eighty-five mammals from Somaliland; *presented by Dr. R. E. Drake-Brockman.*

Three mammals from Uganda, including the type of a new species of Giant Shrew; *presented by Dr. R. Van Someren.*

One thousand and thirty-four mammals from British East Africa, collected by Mr. Robin Kemp; *presented by C. D. Rudd, Esq.*

Nine mammals from Mumias, British East Africa; *presented by the Hon. Kenneth R. Dundas.*

Six mammals from British East Africa; *presented by S. L. Hinde, Esq.*

Two Waterbucks from the Lorian Swamp, British East Africa; *presented by Lord Gifford.*

The type of a new species of Potto from British East Africa; *presented by Messrs. Maturin and Brett.*

Eight mammals from East Africa; *presented by G. J. Muir, Esq.*

A Fruit-Bat from Pemba Island; *presented by the late A. Gunning, Esq.*

Twenty-three mammals from Nyasaland; *presented by R. L. Harger, Esq.*

Fifteen mammals from Nyasaland, collected by Mr. S. A. Neave; *presented by the Entomological Research Committee.*

Ninety-three mammals from Ngamiland, collected by Mr. R. B. Woosnam; *presented by the Subscribers to the Lake Ngami Expedition Fund.*

Twenty mammals from Rhodesia; *presented by F. H. Melland, Esq.*

Thirteen mammals from South Africa; *presented by C. W. Turner, Esq.*

Seven mammals from South Africa, received in exchange from Dr. Lyster Jameson.

Sixty-three mammals from Angola and Portuguese Guinea, collected by Dr. W. J. Ansorge.

Thirty-one mammals from the Gold Coast; *presented by Dr. H. G. F. Spurrell.*

Forty-nine mammals from Southern Nigeria, collected by P. A. Talbot, Esq.

MAMMALIA—*continued.*

Four mammals, including the types of two new species, from Nigeria ; *presented by P. A. Talbot, Esq.*

America, North.

A Reindeer (skull and horns) from North America; *presented by Sir Robert Harvey, Bart.*

Two Canadian Beavers ; *presented by A. P. Leeston Smith, Esq.*

A Sheep from Klondike ; *presented by H. Pinkiert, Esq.*

America, South.

One hundred and seventy-six mammals from British Guiana ; *presented by F. V. McConnell, Esq.*

Five Bats from Rio de Janeiro ; *presented by D. A. Bannerman, Esq.*

Skeleton, etc. of a Manatee (*Manatus inunguis*), from the Amazon ; *presented by E. Salis Schwabe, Esq.*

A rare Armadillo from San Luis, Argentine Republic ; *presented by Mrs. Oyler.*

Six mammals from San Rafael, Argentine ; *presented by W. M. Bayne, Esq.*

Twenty-one mammals from Chili, collected by Mr. D. S. Bullock.

Australasia.

Three hundred and one mammals from the Kei and Aru Islands, collected by the late Mr. W. Stalker ; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

The type of a new species of Bat from Buru, collected by Mr. A. Everett ; *presented by the Hon. Walter Rothschild.*

Six mammals from the Arfak mountains, Dutch New Guinea, collected by Mr. A. E. Pratt.

Thirty-five mammals from Amboina and Queensland ; *presented by F. Muir, Esq.*

Two mammals from the Montebello Islands, N.W. Australia ; *presented by T. H. Haynes, Esq.*

Seven mammals from Western Australia ; *presented by the West Australian Museum and Art Gallery, Perth.*

Skeletons of *Macropus robustus* and *M. parma*, from the Blue Hills, Australia.

AVES.

The acquisitions number nine thousand three hundred and seventy-seven. Of these the most noteworthy are as follows :—

Europe.

Six Harlequin Ducks (*Cosmonetta histrionica*) in eclipse plumage.

AVES—*continued.*

Sixteen birds from Co. Sligo, Ireland, including the type of the newly described Irish Coal Tit (*Parus hibernicus*); *presented by Collingwood Ingram, Esq.*

The first British killed specimen of the Carolina Crake (*Porzana carolina*); *presented by H. S. W. Eyre, Esq.*

Asia.

Six hundred and seventy-six birds from S. China; received in exchange from Lt.-Commander R. E. Vaughan, R.N.

One hundred and eight birds from S. China; *presented by Staff-Surgeon C. E. C. Stanford, R.N.*

One hundred and sixty-six birds from the Highlands of Formosa; *presented by A. E. Wileman, Esq.*

Four birds from Formosa, including the type of a new species (*Nucifraga owstoni*); *presented by Collingwood Ingram, Esq.*

Sixty-one birds from the N.W. Provinces of India; *presented by Capt. C. H. T. Whitehead.*

One hundred and sixty-two Kalij Pheasants from Burma, including six species new to the Collection, and seven type-specimens (E. W. Oates Collection).

Four birds from Upper Burma, including the types of three new sub-species; *presented by Major H. H. Harington.*

One hundred and forty-one birds from Annam, including the type of a new species of Pigeon (*Crocopus annamensis*). Collected by Dr. J. J. Vassal.

One hundred and fifteen birds from Borneo; *presented by the Subscribers to the Expedition sent by the British Ornithologists' Union to New Guinea.*

Africa.

Four birds, including two specimens of a Chaffinch (*Fringilla polatzeki*) new to the Collection, from Grand Canary; *presented by D. A. Bannerman, Esq.*

A Whale-headed Stork (*Balæniceps rex*), from the Bahr-el-Ghazal; *presented by Lt.-General Sir Francis Wingate, K.C.B., K.C.M.G., D.S.O.*

Forty-five birds from Somaliland and S. Abyssinia; *presented by Dr. R. E. Drake-Brockman.*

Four hundred and twenty-nine birds from British East Africa, and from the Kilimanjaro district, collected by Mr. Robin Kemp; *presented by C. D. Rudd, Esq.*

Two hundred and nineteen birds, from various localities in British East Africa; *presented by S. L. Hinde, Esq.*

Two hundred and eighty-three birds from the Mabira Forest, British East Africa; *presented by L. M. Seth-Smith, Esq.*

The type-specimens of *Stiphrornis mabiræ*, *Alethe kikuyuensis*, and five other species recently described, from British East Africa; *presented by F. J. Jackson, Esq., C.B., C.M.G.*

One hundred and fifty-nine birds and three eggs from Lake Ngami, collected by Mr. R. B. Woosnam and the Hon. Gerald Legge; *presented by the subscribers to the Lake Ngami Expedition Fund.*

AVES—*continued.*

One thousand three hundred and forty-six birds, nests, and eggs, from Angola, Portuguese Guinea, and the Cape Verde Islands, including one species, *Dryoscopus turati*, new to the Collection, and the type of a new species of Weaver-bird (*Ortygospiza ansorgei*), collected by Dr. W. J. Ansorge.

Twenty-nine birds from Nigeria; *presented by P. A. Talbot, Esq.*

America, South.

A Darwin's Rhea (*Rhea darwini*) from the Woburn Aviaries; *presented by His Grace the Duke of Bedford, K.G.*

One hundred and fifty birds collected in Guatemala by Mr. G. C. Shortridge; *presented by the Zoological Society.*

Ninety-five birds collected on the Rio Paraguay; *presented by Geoffrey W. Tudor, Esq.*

Six hundred and forty-seven birds, six hundred and two eggs, and forty nests from Buenos Aires, collected by Mr. C. H. B. Grant; *presented by Ernest Gibson, Esq.*

Australasia.

One hundred and sixty-one birds from the Owen Stanley Mountains, New Guinea; *presented by E. J. Brooke, Esq.*

Four hundred and two birds and twenty-nine eggs, from Aru, Kei, Ceram, and Amboina; *presented by the Subscribers to the Expedition sent by the British Ornithologists' Union to New Guinea.*

One hundred and fifty-three birds from Australia; *presented by Miss Audrey Chirnside.*

REPTILIA.

The additions number six hundred and eight, of which five hundred and fifty-two were acquired by presentation and fifty-six by purchase. The following are worthy of note:—

Europe.

Fifteen Lizards from Portugal; *presented by Dr. H. Gadow, F.R.S.*

Nine Reptiles from Malta.

Asia.

An Amphisbænid Lizard new to the Collection (*Pachycalamus zarudyi*), from the Island of Manama in the Persian Gulf; *presented by Dr. G. K. Monami.*

Seventeen Snakes from Southern Fokien, China; *presented by J. Preston Maxwell, Esq.*

Seventeen Reptiles from various parts of India, including types of two new Snakes (*Lycodon mackinnoni* and *Tropidonotus venningi*); *presented by Major F. Wall, I.M.S.*

REPTILIA—*continued.*

A new Snake (*Tropidonotus venningi*) from the Chin Hills; *presented by Capt. J. E. W. Venning.*

Thirty-four Reptiles from Ceylon; *presented by T. Bainbrigge Fletcher, Esq., R.N.*

Eighteen Reptiles from Central Borneo, collected by Mr. J. C. Shortridge; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

Africa.

Fifty-two specimens from the Seychelles and other Islands in the Indian Ocean; *presented by Prof. J. Stanley Gardiner, F.R.S.*

Twelve Reptiles from Egypt and the Sudan; *presented by the Director of the Giza Zoological Gardens.*

A Lizard (*Lygosoma sphenopsiforme*) from Somaliland, new to the Collection; *presented by the Director of the Museo Civico, Genoa.*

Five Snakes from Uganda; *presented by Col. Sir David Bruce, C.B., F.R.S.*

Thirteen Reptiles from British East Africa; *presented by F. J. Jackson, Esq., C.B., C.M.G.*

Ten Reptiles from British East Africa, collected by Mr. R. Kemp; *presented by C. D. Rudd, Esq.*

Fifty-nine Reptiles from Bechuanaland, collected by Mr. R. B. Woosnam; *presented by the Subscribers to the Lake Ngami Expedition Fund.*

Eighty-eight Reptiles from various parts of South Africa, among which are examples of several species new to the Collection, and co-types of three new species (*Pachydactylus purcelli, Monopeltis colobura, Glauconia longior*); *presented by the Trustees of the South African Museum.*

A Sea Snake (*Hydrus platurus*) from Port Elizabeth; *presented by F. W. Fitz Simons, Esq.*

Eighteen Reptiles from Oban, Calabar; *presented by P. A. Talbot, Esq.*

America, South.

Forty-one specimens from Western Colombia, collected by Mr. G. Palmer, including types of several new species (*Anolis macrolepis, A. ventrimaculatus, Echinosaura palmeri, Leptognathus sancti-joannis*).

Sixteen specimens from near Rio Janeiro; *presented by D. A. Bannerman, Esq.*

Thirteen Lizards from Uruguay and Chili; *presented by Dr. Arechavelatá.*

Australasia.

Sixty-nine Reptiles from the Moluccas, collected by the late Mr. W. Stalker; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

REPTILIA—*continued.*

Thirty-one Reptiles from Central Australia, among them examples of two lizards new to the Collection (*Lygosoma ocelliferum* and *Ablepharus tæniopleurus*); *presented by H. S. Hillier, Esq.*

BATRACHIA.

The additions number two hundred and nine, of which one hundred and sixty-six were acquired by presentation and forty-three by purchase. The principal additions are:—

Africa.

Thirty-eight specimens from the Seychelles, among which are a new Frog (*Nectophryne gardineri*) and two new Cæcilians (*Dermophis sechellensis* and *Hypogeophis brevis*); *presented by Prof. J. Stanley Gardiner, F.R.S.*

Thirteen specimens from British East Africa; *presented by F. J. Jackson, Esq., C.B., C.M.G.*

Thirteen Frogs from Bechuanaland, collected by Mr. R. B. Woosnam; *presented by the Subscribers to the Lake Ngami Expedition Fund.*

Seven Frogs from South Africa; *presented by the Trustees of the South African Museum.*

Eight Frogs from Oban, Calabar; *presented by P. A. Talbot, Esq.*

America, South.

Thirty-three specimens from Southern Colombia (M. G. Palmer Collection), including a Frog (*Ceratohyla proboscidea*) new to the Collection, and examples of several new species.

Twenty specimens from near Rio Janeiro; *presented by D. A. Bannerman, Esq.*

Ten Frogs from Santa Catharina, Brazil, collected by Mr. W. Ehrhardt.

Australasia.

Fourteen specimens from the Moluccas, collected by the late Mr. W. Stalker; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

PISCES.

Of the nine hundred and seventy-two additions, six hundred and sixteen were acquired by presentation, three hundred and fifty-four by purchase, and two by exchange. The following are the most important:—

Europe.

A Fish (*Lycodes eudipleurostictus*) new to the Collection, from the Faroe Channel; *presented by Dr. N. Wolfenden.*

PISCES—*continued.*

Examples of the Powan (*Coregonus clupeoides*) of Loch Lomond; *presented by H. Lamard, Esq.*

An albino Plaice from Grimsby; *presented by the Fishmongers' Company.*

An albino Haddock from the North Sea; *presented by W. J. Howlett, Esq.*

A rare Scombroid Fish (*Thyrsites pretiosus*), from the London Market; *presented by C. W. Edwards, Esq.*

A File-fish (*Balistes capriscus*) from Dartmouth; *presented by F. J. B. Beckford, Esq.*

A hybrid Rudd × Bream, from Norfolk; *presented by A. J. Rudd, Esq.*

Nineteen deep-sea Fishes from off the West Coast of Ireland, including a Chimæra (*Harriotta raleighana*) new to the Collection and the types of two new species (*Cyttosoma helgœ* and *Grammatostoma flagellibarbis*); *presented by the Department of Agriculture and Fisheries for Ireland.*

A remarkable Trout from Lough Carra, Co. Mayo; *presented by Col. R. F. Meysey Thompson.*

Examples of a rare Skate (*Raia undulata*), from Brittany; *presented by G. A. Boulenger, Esq., F.R.S.*

Asia.

A rare Sturgeon (*Acipenser orientalis*), from the Amur; *presented by the Fishmongers' Company.*

Seventy-three Fishes from Japan; *presented by R. Gordon-Smith, Esq.*

Twenty-four Fishes from the Persian Gulf and the Mekran Coast; *presented by F. W. Townsend, Esq.*

Co-types of *Oreinus baileyi*, from Tibet, and *Triacanthus weberi*, from Madras; received in exchange from the Indian Museum, Calcutta.

Africa.

Twenty specimens from British East Africa, among them examples of the Trout introduced in Nairobi; *presented by F. J. Jackson, Esq., C.B., C.M.G.*

Twenty-seven specimens collected in German East Africa by Dr. E. J. Baxter.

Eighty-seven specimens from the Lake Ngami district, Bechuanaland, including examples of several new species, collected by Mr. R. B. Woosnam; *presented by the Royal Society.*

Twenty-one specimens from Rhodesia, including a new Barbel (*Barbus rogersi*); *presented by the Rev. F. A. Rogers and E. C. Chubb, Esq.*

PISCES—*continued.*

A new *Barilius* from the Transvaal; *presented by the Trustees of the South African Museum.*

Co-types of *Clinus mus* and *Cl. pavo,* from False Bay; *presented by Dr. J. D. F. Gilchrist.*

A collection of thirty-seven Fishes made by Dr. J. T. Cunningham in St. Helena, including the types of two new species (*Lirus moselii* and *Pimelepterus gallveii*); *presented by Alfred Moseley, Esq., C.M.G.*

Forty specimens from Angola, including types of many new species, being part of a large Collection made by Dr. W. J. Ansorge.

A new Fish (*Haplochilus ferranti*) from the Lower Congo; *presented by the Luxemburg Museum.*

Eighteen specimens collected in Portuguese Guinea by Dr. W. J. Ansorge.

A new *Polypterus* (*P. ansorgii*), from Portuguese Guinea; *presented by Dr. W. J. Ansorge.*

Five specimens from the Upper Niger; *presented by C. H. Firmin, Esq.*

One hundred and thirty-two specimens from Southern Nigeria, including a new Barbel (*Barbus chlorotænia*); *presented by Major G. E. Bruce.*

Nine specimens from Southern Nigeria; *presented by P. A. Talbot, Esq.*

America, South.

One hundred and forty specimens collected by Mr. M. G. Palmer in South Western Colombia, among which are types of several new species (*Curimatus lineopunctatus, Lebiasina multimaculata, Luciocharax striatus, Nematabrycon palmeri*).

Thirty-three specimens from Sta Catherina, Brazil, collected by Mr. W. Ehrhardt.

The co-type of a new Fish (*Corydoras ehrhardti*), from Brazil; *presented by Dr. F. Steindachner.*

A very large specimen of *Leporinus obtusirostris,* from Buenos Aires.

Australasia.

Ten specimens from Central Australia, among which is a Fish (*Gobius eremius*), new to the Collection; *presented by H. S. Hillier, Esq.*

TUNICATA.

The sixty-three additions are almost all Antarctic specimens, which have been described by Prof. W. A. Herdman, F.R.S., from the collection made during the National Antarctic ("Discovery") Expedition in 1901–1904.

Mollusca.

Two thousand nine hundred and fifty-two specimens were acquired during the year. The following are the most important series:—

Miscellaneous.

Forty-seven land, freshwater and marine shells from several localities, including the types of four new species and co-types of twelve others.

A specimen of *Strombus gigas* with abnormal lip, the type of *Pseudoliva ancilla*, and twelve figured specimens from the Hanley Collection; *presented by Henry Harvey, Esq.*

Thirty-five land and marine shells from various localities, including types of nine African species from Dr. Gibbons' Collection.

One hundred and ninety-four land, freshwater and marine shells, mostly new to the Collection, and including the types of six recently described species.

One hundred and seventy-nine land, freshwater and marine shells from many localities, including seven types and numerous rare and recently described species.

Ninety-four shells from various places, including eleven co-types and many species new to the Collection.

Ninety-eight land shells from various localities, nearly all new to the Collection, and many of them extremely rare.

Europe.

Fifty-seven marine shells from Jersey, fine specimens in fresh condition; *presented by H. Spurrier, Esq.*

Asia.

Seventy-four land shells from Tonkin, representing thirty species new to the Collection.

Eleven land and freshwater shells from N.E. China, including the types of four new species; *presented by Staff-Surgeon K. H. Jones, R.N.*

Ninety-three Mollusca from Travancore; *presented by the Trivandrum Museum.*

Two hundred and eleven shells from Goram, Kei Islands, collected by the late Mr. W. Stalker; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

Africa

Eight hundred and twenty-eight shells from the Seychelles and other neighbouring groups of Islands in the Indian Ocean, including the types described by J. C. Melvill and E. R. Sykes in their reports upon this Collection; *presented by Prof. J. Stanley Gardiner, F.R.S.*

MOLLUSCA—*continued.*

The types of thirteen new species of land shells from South Africa; *presented by J. H. Ponsonby, Esq.*

Australasia.

Forty-nine marine shells from Queensland; *presented by J. Shirley, Esq.*

Thirty-four marine shells from North Queensland, representing species nearly all new to the Collection; *presented by C. J. Gabriel, Esq.*

Eighty specimens of Chitons from the Coast of New South Wales, valuable on account of their fine condition and exact localities; *presented by A. F. B. Hull, Esq.*

One hundred and seven marine shells from South Australia, all new to the Collection, and many of the species represented by co-types; *presented by Dr. J. C. Verco.*

INSECTA.

Including the Walsingham Collection of Micro-lepidoptera, estimated to contain over 260,000 specimens, the number of specimens added to this part of the Collection during the year is three hundred and sixty-nine thousand eight hundred and seventy-three, made up as follows:—

Coleoptera	31,670
Lepidoptera	271,530
Hymenoptera	47,655
Diptera	6,404
Rhynchota	9,510
Orthoptera	1,008
Neuroptera	2,060
Nests, etc.	36
Total	369,873

The most important of these accessions are the following:—

From various Localities.

Two hundred and sixty thousand Micro-Lepidoptera; *presented by the Right Hon. Lord Walsingham, F.R.S.*

Three thousand nine hundred and eighty-one Coleoptera (Phytophaga), including nine hundred and thirty-four types, being the third and final instalment of the Jacoby Collection.

Two thousand Coleoptera (Clavicornia); *presented by George Lewis, Esq.*

The Collection of Palæarctic Hymenoptera formed by the late Edward Saunders, F.R.S., containing thirty thousand specimens.

Two thousand nine hundred Hymenoptera, including many types; *presented by Rowland E. Turner, Esq.*

INSECTA—*continued.*

The Collection of Palæarctic Hemiptera formed by the late E. Saunders, F.R.S., and containing six thousand one hundred and twenty specimens; *presented by an anonymous donor.*

Seven hundred and fifteen Diptera (Culicidæ), together with three hundred and one microscopic slides and one hundred and thirty-nine photographic negatives; *presented by F. V. Theobald, Esq.*

One thousand six hundred and ninety-six microscopic slides, mostly of Diptera, prepared by the late Walter Wesché, F.R.M.S.; *presented by Mrs. Wesché.*

Eight hundred and eighty-three Neuroptera (Psocidæ), including fifty-six types and four co-types, from the Collection made by Dr. Günther Enderlein.

Europe.

Six hundred and fifteen British Neuroptera (Psocidæ) and eighty British Diptera (Pulicidæ), from the Collection formed by the late E. Saunders, F.R.S.

The Collection of British Hymenoptera, numbering over ten thousand specimens, formed by the late E. Saunders, F.R.S.; *presented by the Rev. F. D. Morice.*

Three hundred and forty-one named British Hymenoptera (Ichneumonidæ); *presented by G. C. Champion, Esq.*

Asia.

Nine thousand four hundred Coleoptera from Japan and Ceylon, forming part of the Collections made there by G. Lewis, Esq., and containing many types.

Fourteen hundred Coleoptera and seventy-two insects of other Orders from Borneo and Japan; *presented by J. E. A. Lewis, Esq.*

Two hundred and thirty Lepidoptera Rhopalocera, and a series of bark-beetles (Scolytidæ) with specimens of the different woods attacked by them, from Japan and Formosa; by exchange from the College of Agriculture, Imperial University of Tohoku, Sapporo, Japan.

Two hundred and twenty-five insects of various Orders, from Chengtu, China.

Five hundred Lepidoptera from Afghanistan; *presented by W. Anning, Esq.*

Two thousand one hundred and seven Lepidoptera Phalænæ from Sikhim; *presented by M. F. Möller, Esq.*

Two hundred and twenty-two Diptera; by exchange from the Indian Museum, Calcutta.

Africa.

Fourteen thousand one hundred and fifty-five African insects of various Orders; *presented by the Entomological Research Committee.*

INSECTA—*continued.*

America.

Six hundred and seventy-eight named Coleoptera (Staphylinidæ) from the United States; *presented by Dr. A. Fenyes.*

One thousand and twenty-eight named Coleoptera (Staphylinidæ) from Central America; *presented by F. D. Godman, Esq., D.C.L., F.R.S.*

Six hundred and twenty-eight Lepidoptera Phalænæ from Costa Rica, including many co-types of species described by the donor; *presented by W. Schaus, Esq.*

Two hundred and fifty-six Hymenoptera Aculeata from Brazil, including many types; *presented by the Director of the Museum Goeldi, Pará.*

Australasia.

Seven hundred insects of various Orders collected by the late Mr. W. Stalker on the expedition to New Guinea; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

Six hundred and ninety-eight Coleoptera, mostly type specimens, from the Rev. Canon T. Blackburn's Collection.

One hundred and seventy-four Coleoptera, chiefly co-types, from Australia; by exchange, from A. M. Lea, Esq., Government Entomologist, Hobart.

PROTOTRACHEATA.

Two specimens of his new species, *Peripatus papuensis,* were purchased from Professor A. Sedgwick, F.R.S.; and an example of the rare *P. woodwardi* was presented by Dr. W. Michaelsen.

MYRIOPODA.

The accessions number one hundred and sixty-four. The more important are:—

Thirty-nine specimens from various localities, including the co-types of nineteen species; received in exchange from Prof. F. Silvestri.

Sixty-five specimens from Uganda and German East Africa, including co-types of twenty-three species.

Seventeen specimens from the Aru and Goram Islands; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

ARACHNIDA.

The accessions number one thousand four hundred and five; the following deserve special mention:—

Asia.

Thirty-nine Arachnida from China and Ceylon; *presented by T. Bainbrigge Fletcher, Esq., R.N.*

ARACHNIDA—*continued.*

Africa.

Seven hundred and seventy-five Arachnida from the Seychelles and other islands of the Indian Ocean; *presented by Prof. J. Stanley Gardiner, F.R.S.*

Forty Arachnida from Biskra, Algeria, including the type of *Barrella walsinghami*, a new genus and species of Solifugæ; *presented by Lord Walsingham, F.R.S.*

Six specimens (co-types) of an interesting South African Harvestman (*Purcellia illustrans*); *presented by Dr. F. W. Purcell.*

Two hundred and fifty Arachnida from Angola.

Thirty Arachnida from South Nigeria, including the types of *Guruia talboti*, Roewer; *presented by P. A. Talbot, Esq.*

Australasia.

Thirty-nine Arachnida from the Aru and Goram Islands; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

Twenty-one Arachnida, including several undescribed species of Scorpions and Spiders, from Central Australia; *presented by H. J. Hillier, Esq.*

CRUSTACEA.

The additions number one thousand six hundred and forty-one, of which the following are the most important:—

Miscellaneous.

One hundred and fifty-one specimens of Isopoda, including types of twelve new species, from Antarctic Seas; from the "Discovery" Expedition.

One specimen of a rare Copepod from Antarctic Seas; *presented by Dr. W. S. Bruce.*

Two co-types of Cumacea from South Georgia; received in exchange from Dr. C. Zimmer, Breslau.

One specimen of a rare Isopod from the South Orkney Islands; *presented by T. V. Hodgson, Esq.*

Thirty specimens of Whale-parasites from the South Shetlands; *presented by Herr J. A. Mörch.*

One hundred and sixteen microscopic preparations of Apodidæ, prepared by the late Mr. H. M. Bernard; *presented by Mrs. Bernard.*

Two hundred and eighty-nine specimens of Crustacea from the North Atlantic, the Mediterranean, and the North Pacific Oceans; from the collection of the Rev. Canon A. M. Norman, F.R.S.

CRUSTACEA—*continued.*

One hundred and sixty-eight specimens of Cumacea, including co-types and twenty-six new species, from various localities; *presented by the Museum of Zoology, Copenhagen.*

Europe.

Thirty-four specimens of Crustacea from Plymouth and the Bay of Biscay.

Forty-three specimens of Isopods and their "nests," from Plymouth and the Bay of Biscay; *presented by Mrs. E. W. Sexton.*

A specimen of a Well-shrimp from Hampshire; *presented by Lady Jenkins.*

A specimen of *Dromia vulgaris* from Cornwall; *presented by E. Wright, Esq.*

A specimen of *Squilla desmarestii* from the coast of Sussex; *presented by Mr. P. Stammwitz.*

Five specimens of the Norway Lobster showing abnormalities, from Scotland; *presented by Dr. J. H. Ashworth.*

Forty-one specimens of Schizopoda and Cumacea from the coasts of Ireland; *presented by the Department of Agriculture and Technical Instruction for Ireland.*

A red specimen of the common Lobster, from Ireland; *presented by the Board of Agriculture and Fisheries.*

A type specimen of an Isopod and a specimen of a rare Amphipod, from the Bay of Biscay; *presented by A. O. Walker, Esq.*

A Cumacean from the Bay of Biscay; received in exchange from the Paris Museum.

One hundred and eighty specimens of Ostracoda from the "Research" Expedition in the Bay of Biscay; *presented by Dr. G. H. Fowler.*

A Woodlouse from the South of France; *presented by the Hon. N. C. Rothschild.*

Twenty specimens of subterranean and other Isopoda from France and Corsica; *presented by Dr. G. Racovitza.*

Asia.

Four specimens of *Apus* from Northern China; *presented by E. B. Howell, Esq.*

A specimen of a rare Stomatopod, new to the collection, from Japan; *presented by the Zoological Museum of Munich.*

Fifty-three specimens of Cirripedia, including co-types of three species and varieties, and twelve specimens (co-types) of Stomatopods, from Indian Seas; received in exchange from the Indian Museum, Calcutta.

Fourteen specimens of Deep-sea Crustacea from the Indian Ocean; *presented by the Eastern and Associated Telegraph Companies.*

CRUSTACEA—*continued.*

Eight specimens of Crabs from Travancore; *presented by the Government Museum, Travancore.*

Ten specimens of a Prawn from the Gulf of Oman; *presented by F. W. Townsend, Esq.*

Two specimens of the Blind Prawn of the Sea of Galilee.

Africa.

One hundred and twenty-five specimens of Ostracods, including types of twenty-seven new species, from the Great Lakes of Africa; *presented by the Tanganyika Exploration Committee.*

Ten specimens of River-prawns from Lake Ngami; *presented by the Subscribers to the Lake Ngami Expedition Fund*

Two specimens of a River-crab from Uganda.

Four specimens of a River-crab from Nigeria; *presented by P. A. Talbot, Esq.*

A River-prawn from the Upper Niger; *presented by C. H. Firmin, Esq.*

Eight secimens (co-types) of Copepods from Northern Nigeria; *presented by Dr. J. H. Ashworth.*

Fifty-one specimens of River-crabs and River-prawns from Angola and the Camaroons.

Three specimens of a River-crab from the Fayum; *presented by Capt. S. S. Flower.*

Seven specimens of subterranean Isopoda from Algeria; *presented by Dr. G. Racovitza.*

A co-type of a species of River-crab from Madagascar; received in exchange from the Paris Museum.

America.

Ten specimens of Crustacea from the West Indies; *presented by the West India and Panama Telegraph Company.*

Fifteen specimens of rare River-prawns from Havana; received in exchange from the Paris Museum.

Fifty-two specimens of freshwater Crustacea from Brazil.

A River-crab from Brazil; *presented by D. A. Bannerman, Esq.*

Eleven specimens of River-crabs and River-prawns from Colombia.

Two specimens of large Crabs from the Straits of Magellan; *presented by G. M. Hall, Esq.*

Eighty-seven specimens of Crustacea from Amboina, Ceram, and adjacent Islands; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

Pycnogonida.

Ten specimens of Pycnogonida from Harwich; *presented by H. Whitehead, Esq.*

Echinoderma.

The most extensive set was contained in a new instalment of the Norman collection; among these may be mentioned *Ophiothrix luetkeni*, *Solaster furcifer*, *Echinocucumis hispida* and *Antedon quadrata*. A specimen of *Sigsbeia murrhina* was presented by the West Indian and Panama Telegraph Company.

Worms.

Here, again, the largest contingent is from the collection of Canon Norman; of his specimens the following may be specially mentioned:—*Acholoe asterícola*, *Tomopteris helgolandica*, *Marphysa belli*, and *Ctenodrilus pardalis*. A specimen of *Sphærosyllis* with ova was presented by Mr. H. J. Waddington. A specimen of *Ascaris spiculigera* was determined by Mr. A. E. Shipley, F.R.S. An example of the lately described *Ereunetes sicarius* was obtained by exchange from the Indian Museum, Calcutta.

Polyzoa.

The most important additions were as follows:—

Portions of types and co-types of ten species of Polyzoa from Queensland, described by Professor W. A. Haswell in 1881; *presented by the Trustees of the Australian Museum, Sydney.*

Anthozoa.

Of the few specimens of this group obtained during the year were some from the Norman Collection, of which may be cited the type of *Rhizoxenia albicolor*.

Prof. J. P. Hill has presented the types of four species of Zoanthids from Queensland and New Hebrides.

Hydrozoa.

The most important additions were:—

Eleven specimens of Hydroida from a cable at a depth of 49 fathoms off Puerto Rico, West Indies; collected and *presented by Captain A. Morrell (West India and Panama Telegraph Company)*.

Five specimens of Hydrozoa from the Mediterranean and Atlantic; *presented by the Eastern and Associated Telegraph Companies.*

Porifera.

The following were the more noteworthy additions :—

Thirty-two specimens of *Astrosclera willeyana* and nineteen specimens of *Murrayona phanolepis* from 50 fathoms off Christmas Island, Indian Ocean ; collected and *presented by R. Kirkpatrick, Esq.*

Seventeen Sponges from Puerto Rico, detached from a cable in 49 fathoms ; *presented by Captain A. Morrell* (*West India and Panama Telegraph Company*).

Eighty-seven bottles of Sponges from the Antarctic, collected by the "Nimrod" Expedition ; *presented by Sir Ernest Shackleton.*

Sixteen specimens and twenty-four microscopic preparations of Hexactinellid Sponges, obtained by the "Gauss" German Antarctic Expedition ; *presented by the Berlin Museum.*

Fifteen specimens (a second consignment) of Sponges collected by the Belgian Antarctic Expedition ; received in exchange from the late Professor E. van Beneden.

Summary of the Acquisitions in the Department of Zoology during 1910.

	Donations.	Purchases.	Exchanges.	Total.
Mammalia { Wild	2,862	374	10	3,246
Mammalia { Domesticated	11	—	—	11
Mammalia { Human	2	—	—	2
Aves { Skins	3,505	2,983	1,019	7,507
Aves { Eggs, nests, and skeletons	893	977	—	1,870
Reptilia	552	56	—	608
Batrachia	166	43	—	209
Pisces	616	354	2	972
Tunicata	63	—	—	63
Mollusca	2,150	802	—	2,952
Insecta { Walsingham Collection	260,000	—	—	369,873
Insecta { Other sources	61,591	47,558	724	
Prototracheata	1	2	—	3
Myriopoda	54	71	39	164
Arachnida	1,146	259	—	1,405
Crustacea	1,111	441	89	1,641
Pycnogonida	10	—	—	10
Echinoderma	18	195	—	213
Worms	40	77	1	118
Brachiopoda	—	—	—	—
Polyzoa	30	—	—	30
Anthozoa	17	16	—	33
Hydrozoa	19	—	—	19
Porifera	203	—	15	218
Protozoa	—	—	—	—
Totals	335,060	54,208	1,899	391,167

The following Donors* have presented specimens to the Department of Zoology during the past year:—

H.M. King Edward VII.

Addison, W.
Adkin, R.
Aflalo, F. G.
Agar, W. E.
Agassiz, The late Prof. A.
Aiken, Rev. J.
Aitchinson, Dr.
Albany Museum.
Aldworth, T. P.
Alves, Dr. E.
Ancaster, Earl of
Anderson, Dr. J.
Andrewes, H. E.
Andrewes, H. L.
Anning, W.
Ansorge, Dr. W. J.
Arbuckle, Dr. H. E.
Archer, M. E.
Arechavelatá, Dr.
Arnold, J. P.
Ashford, E. J.
Ashworth, Dr. J. H.
Australian Museum, Sydney.

Bagnall, Dr. R. L.
Bagshaw, Dr. A. G.
Bailey, Capt.
Bailey, R. A.
Baird, T.
Balston, W. E.
Bancroft, Dr. T. L.
Banks, C. S.
Bannerman, D. A.
Barker, R. C.
Barnby-Smith, C.
Barrett-Hamilton, Maj. G. E. H.
Bartlett, A. W.
Bate, Miss D. M. A.
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Ingram, Sir W.
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Jenkins, Lady.
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VI.—*Economic Zoology.*

In the exhibited series the chief alteration has been the arrangement of a collection of specimens to illustrate the schedule attached to the "Destructive Insects and Pests Order of 1910."

The services of Mr. G. H. Grosvenor, of New College, Oxford, were secured, early in the year, in order to facilitate the work of the Department in matters relating to Economic Entomology. Some of the re-arrangements mentioned below have been carried out by Mr. Grosvenor, who has also assisted in giving information to inquirers.

A considerable quantity of unarranged material has been incorporated in the Economic series, parts of which have been entirely re-arranged to allow for expansion and to facilitate reference to the collection. In this respect special attention has been paid to the insects injuring cotton and other crops of importance in Africa.

A start has been made with the formation of a subject index of the books, pamphlets, etc. in the Economic Library.

Apart from specimens accompanying inquiries, the chief accessions to the Economic collections are a series of specimens of Sawfly (*Nematus erichsonii*, Hartig.), with parasites, and larch shoots damaged by the larvæ, presented by

Prof. S. J. Hickson, F.R.S., and Mr. J. Mangan of the Victoria University, Manchester; and a number of African Scale-insects (Coccidæ) with portions of plants attacked, presented by the Scientific Secretary of the Entomological Research Committee.

In addition to information and assistance furnished throughout the year to the Scientific Secretary of the Entomological Research Committee, determinations of species (often entailing the expenditure of a large amount of time) and other information were supplied in response to some eighty inquiries with reference to the Diptera alone. The economic importance of these insects as carriers of disease renders their investigation of special urgency and interest.

The following were among the more interesting and important inquiries with respect to the Diptera:—

1. A horse-fly (*Tabanus edentulus*, Macq.), a nuisance to children in Schools in Tasmania. (Specimens and inquiry received from the Chief Health Officer, Department of Public Health, Hobart, Tasmania.)
2. Larvæ of a small fly (*Aphiochæta ferruginea*, Brun.), discharged from the human intestine in Trinidad B.W.I.; also specimens of the perfect insect of the same species bred from larvæ voided in a similar manner by a patient in the Military Hospital, Manila. (Specimens forwarded for identification and information by the Bureau of Science, Manila, Philippine Islands.)
3. Larvæ of two species belonging to the genus *Sarcophaga* causing cutaneous myiasis in man at Belize, British Honduras. (Specimens and inquiry received from the Principal Medical Officer, Belize.)
4. Flies infesting the kitchen of a house at Leeds. (Specimens and inquiries received on several occasions from the Medical Officer of Health, Leeds.)
5. *Polietes lardaria*, Fabr., a pest in a house in Warwickshire.
6. Flies in the vicinity of Sydney, New South Wales, regarded with suspicion as possible disease-carriers. (Collection and request for names received from the Principal Assistant Microbiologist, Government Bureau of Microbiology, Sydney.)
7. *Simulium lineatum*, Mg., causing ulceration in the ears of army horses in the Southern Command, England. (Specimens and request for identification received from the Principal Veterinary Officer, Southern Command.)
8. "Plague of Flies" (all *Musca domestica*, L.) at Postwick, near Norwich. (Specimens, with request for identification, received from Dr. S. Monckton Copeman, F.R.S., Local Government Board.)

9. Larvæ of a species of *Sarcophaga* removed at Bhavnagar Para, India, from the palate and nose of a human being. (Specimens, with request for identification and information, forwarded by the Chief Medical Officer, Bhavnagar-Gondal-Junagad-Porbandar Railway, Bhavnagar Para.)
10. Dipterous larvæ said to have been drawn with milk from a cow's udder. (Specimens received for identification from Prof. G. H. Carpenter, Royal College of Science for Ireland, Dublin.)
11. *Glossina palpalis*, Rob.-Desv. (the disseminator of Sleeping Sickness) and other species of Tsetse-flies in various portions of the British dominions in Africa. (Numerous inquiries received from the Director of the Sleeping Sickness Bureau.)
12. Small flies (*Aphiochæta ferruginea*, Brun., and *Hippelates bilineatus*, de Meijere) bred from larvæ vomited by an Indian patient in the Civil Hospital, Hong Kong. (Specimens forwarded for identification by the Government Bacteriologist, Hong Kong.)
13. A species of mosquito (*Pyretophorus cinereus*, Theob.), possibly the disseminating agent in an epidemic of malaria, which occurred in 1909 in the district of Gordonia, Province of the Cape of Good Hope, and caused over 400 deaths. (Specimens sent, with request for identification and information, by Dr. E. H. Phillips, District Surgeon, Gordonia, Province of the Cape of Good Hope.)
14. A blow-fly infesting certain districts in Queensland. (Request for information received from Mr. P. G. Mylne Mitchell, Royal Mail Steam Packet Company.)
15. Mosquitoes (*Culicidæ*); inquiry how to rid house of them.

The following are some of the objects of inquiry, among the other Orders, upon which information and advice have been sought, and as far as possible given:—

1. Pests in houses—

(*a*) Bed bug (*Cimex*) and flea (*Pulex*); inquiry as to life-histories.

(*b*) Furniture mites (*Glycyphagus*).

(*c*) Ticks (*Ornithodorus moubata*) infesting native nuts in Transvaal.

(*d*) "Wood-worms" or Beetle larvæ (*Anobium domesticum*) in furniture.

(*e*) Beetle (*Anobium paniceum*) infesting room, supposed to have been introduced in stuffing of pincushion.

(*f*) Mealworm beetle (*Tenebrio molitor*) in house.

(*g*) Oak, in roof of church, much damaged by larvæ of beetles (*Anobium tessellatum*).

(*h*) Beetles in house (*Niptus hololeucus*), several inquiries.

2. Inquiry from War Office as to Army Biscuit damaged by moth and beetle. (Report on the subject drawn up.)

3. North American Hickory injured by beetles (Longicornia and Scolytidæ).

4. Sugar-cane in Guatemala injured by beetles (*Podischnus agenor* and *Heterogomphus schoenherri*).
Shade trees injured by the beetle *Oncideres putator*.

5. Cigar beetle (*Lasioderma serricorne*) infesting Turmeric and invading houses; sent for identification and reference to its life-history by the Medical Officer of Health, City of London.

6. Beetles, in flour from North America, known as "Weevils" (*Calandra granaria*, *Ptinus tectus*, *Tenebrioides mauritanicus*).

7. Beetles injurious to mangolds (*Plectroscelis concinna* and *Atomaria linearis*).

8. Beetle (*Rhynchites ruber*) very injurious to Olives in Italy.

9. Beetle (*Xyleborus morigerus*) injuring Orchids.

10. Bamboos, used for man-lifting kites; inquiries relating to injuries caused by beetles (*Caloclytus annularis* and *Lyctus brunneus*), received from the Superintendent of the Balloon Factory, South Farnborough.

11. (1) Sycamore panelling for railway-carriages, (2) Austrian Oak, and (3) ash furniture injured by borings of beetle larvæ (*Lyctus brunneus*).

12. Larch injured by a beetle (*Curculio abietis*) and an aphis (*Chermes laricis*).

13. Apple infested by the Bud-moth (*Hedya* (*Tmetocera*) *ocellana*).

14. Bananas infested by a mealy bug (*Dactylopius citri*).

15. Blood-sucking bug (*Conorhinus infestans*) from Chile.

16. Inquiry from the Board of Agriculture as to Turkestan Lucerne infested by a parasitic Hymenopteron (*Bruchophagus* sp.).

17. Beam in house bored by the sawfly *Sirex gigas*. Many specimens of this insect were sent for determination during the year.

18. Hemipteron (*Anthocoris nemoralis*) and larvæ of Diptera (Syrphidæ), feeding on Hop aphis.

19. Newly moulted cockroach (*Blatta orientalis*) in kitchen.

20. Rhododendron Flies (*Stephanitis rhododendri*) sent for identification from Fulham.
21. Gall-mites, causing injury to black currant bushes and to hazel (*Eriophyes ribis* and *Eriophyes* sp.).
22. Mites(*Lælaps agilis* and *Lælaps* sp.), parasitic on sewer and house rats, some of which were believed to be infected with the plague bacillus.

VII.—*Students and Visitors.*

The number of visits paid during the year to the three sections of the Department by Students and other persons requiring assistance or information amounted to 12,443. In the ten previous years the numbers were :—

11,461	in the year	1909.
10,220	,,	1908.
11,043	,,	1907.
10,813	,,	1906.
11,811	,,	1905.
11,824	,,	1904.
11,627	,,	1903.
10,633	,,	1902.
12,813	,,	1901.
11,923	,,	1900.

Sidney F. Harmer.

Department of Geology.

I.—*Arrangement and Conservation.*

Mammalia (Galleries 1 and 2).—A plaster cast of the Galley Hill skull has been added to the series of Human remains in table-case 1.

A new model of the skull and mandible of *Megaladapis insignis* has been mounted in pier-case 3.

The skeleton of *Mastodon americanus* on stand B, which had begun to show signs of decay, has been completely renovated and hardened.

A new skull and mandible of *Moeritherium* has been mounted in wall-case 43.

Numerous new labels have been printed for exhibited Proboscidea, and new descriptive labels have been prepared for the wall-cases of *Mastodon*, *Stegodon*, and *Diprotodon*.

Wall-case 27, containing the skeleton and other remains of *Diprotodon*, has been re-fitted, arranged, and labelled, and plaster casts of the skulls of *Diprotodon* and *Nototherium* have been placed on the top of the case.

Number of specimens of Mammalia registered, 344.

Aves (Gallery 2).—A plaster cast of the manus of *Didus ineptus* (original in the Zoological Museum, Cambridge) has been prepared for addition to the exhibited skeleton.

Number of specimens of Aves registered, 16.

Reptilia and Batrachia (Galleries 3, 4, 5, 11).—The exhibited model of *Colossochelys atlas* has been renovated and re-painted.

Some specimens of *Pleurosternum* in wall-case 19 have been extricated from the matrix and re-mounted with new labels.

A mandible of *Trachodon*, from the Laramie Formation of Wyoming, U.S.A., has been mounted in wall-case 8.

Wall-case 7 has been partially re-arranged and re-fitted to admit a new sacrum and pelvis of *Iguanodon* recently obtained from the Wealden of Hastings.

A plaster cast of a skeleton of *Nothosaurus* from the German Muschelkalk (original in the Senckenberg Museum, Frankfurt) has been framed and mounted on the wall above wall-case 6.

The naming and arrangement of the Leeds Collection of Oxfordian Plesiosauria in cases in the Basement have been continued, and a new case for the unexhibited catalogued specimens has been provided.

The store-cases for fossil reptiles in the N.E. Basement have been cleaned and made dust-proof.

Number of specimens of Reptilia and Batrachia registered, 341.

Pisces (Gallery 6).—Wall-case 7 has been cleaned, re-painted, and partly re-fitted to admit some recent acquisitions; and new labels have been prepared for the Cœlacanths and Crossopterygians contained in it.

A new skull of *Portheus*, from the Chalk of Kansas, U.S.A., has been framed and exhibited in wall-case 16.

Wall-cases 17–18 have been re-fitted for an exhibition of the higher Teleostean fishes.

The revision of the English Cretaceous fishes has been continued, and new printed labels have been prepared for some of the Chimæroid fishes exhibited in table-case 9.

Number of specimens of Pisces registered, 142.

Mollusca (Galleries 7 and 8, and Workroom).—The Cephalopoda registered, labelled, and incorporated during the year include:—An extensive series of Ammonoids from the Devonian and Lower Trias (*ex* Devonian) of South Devon (Vicary collection); Carboniferous specimens from Belgium; a series from the Trias of Austria; Jurassic specimens from Yorkshire, Warwickshire, Gloucestershire, Somerset, and Dorset; a large series from the Jurassic rocks of the north of Scotland (Marcus Gunn collection); Toarcian Ammonites from Italy; an extensive series of Jurassic Ammonites from France and Germany (Michalet and Charpy collections); Lower Cretaceous Ammonites from Mexico; Wealden Ammonites from Westphalia; Aptian specimens from Kent; Albian Ammonites from Folkestone (Hilton Price collection); Cenomanian Ammonites from Lebanon; British Cenomanian specimens (chiefly from the Cockburn bequest); Cretaceous specimens from Norfolk, Kent, Isle of Wight, and Dorset; Cretaceous Belemnites from the Salt Range, India; Senonian Ammonoids from Yorkshire; Senonian *Belemnitellæ* from Trimingham, Norfolk; and an extensive series of Senonian Ammonoids from Wyoming, U.S.A.

Sixty-nine Ammonites, mounted on blocks and exhibited in the wall-cases, have been re-labelled with printed labels, while eighty-five Ammonoids and one Belemnite in the table-cases have also been re-labelled with printed labels.

The naming of part of the unexhibited series of Austrian Trias Ammonites, occupying ten drawers under table-case 12, has been revised.

The unexhibited series of British Liassic Ammonites is in course of re-arrangement.

The unexhibited series of British Callovian Ammonites has been named and arranged in five drawers beneath table-case 7.

The naming of the unexhibited series of British Liassic Belemnites has been revised and the series arranged in ten drawers under table-case 2.

The "List of types, figured, and historical specimens of Fossil Cephalopoda" has been continued. These now number 1,618.

The Palæozoic Gastropoda and Lamellibranchia registered, labelled, and incorporated during the year include :—Specimens from the Ordovician of North Wales; Upper Devonian Gastropoda from France; large series of Devonian Lamellibranchia from Germany; and an extensive series of Carboniferous Gastropoda and Lamellibranchia, chiefly from the Isle of Man and Northumberland (Caroline Birley Bequest).

The Devonian Gastropoda and Lamellibranchia from Germany have been named and arranged in two drawers under table-case A 5, and in five drawers under table-case A 6 respectively, in Gallery 8.

The exhibited series of British Cambrian, Ordovician and Silurian Gastropoda and Lamellibranchia is in course of re-arrangement.

The Mesozoic and Tertiary Gastropoda and Lamellibranchia registered, labelled, and incorporated during the year include :—Specimens from the Alpine Trias received in exchange from the Munich Museum; Jurassic and Cretaceous shells from France (Michalet and Charpy collections); Cretaceous shells from Zululand, collected and presented by William Anderson, Esq., described in Trans. Roy. Soc., S. Africa, 1909; specimens from the Trimingham Chalk and Weybourn Crag (Savin collection); Belgian Tertiary shells; and a large miscellaneous collection from the Caroline Birley Bequest.

Progress has been made with the revision of the Tertiary and Post-Tertiary non-marine Gastropoda, which are being arranged and labelled in drawers.

Among the most important additions to the exhibited collection are Oligocene Mollusca from Creechbarrow, Dorset, and the type-specimens of *Anodonta becklesi* from the Wealden of Sussex.

Number of specimens of Mollusca registered : Cephalopoda, 995; Gastropoda, 2,804; Lamellibranchia, 3,859.

Arthropoda (Gallery 8 and Workroom).—Attention has chiefly been paid to the British Cretaceous Cirripedes, and a number of specimens have been registered and incorporated from the recently acquired collections of Gen. Cockburn, F. Möckler, W. Vicary, and others. Those from the older collections of C. Darwin, J. S. Bowerbank, J. S. Gardner, J. Sowerby, F. Dixon and others have also been worked through, determined, re-arranged, and the specimens of historic importance identified. Foreign Cirripedes of the Maestricht Chalk (Bosquet collection) have been registered.

Among the other Arthropods registered and incorporated, are Cambrian Trilobites described by E. S. Cobbold, Ordovician and Silurian Trilobites from the Northern Shan States, Burma (Geol. Survey India), Trilobites from Christiania, the Bosphorus, and Sardinia, and a number of miscellaneous acquisitions from various parts of the world.

The slip-catalogue of recently described Arthropods from the Miocene beds of Florissant (many of which are being acquired for the Museum) is kept up to date. A slip-catalogue has been made of the species of the Trilobite *Harpes*, and the specimens in the Museum duly entered therein.

The exhibited series of British Cretaceous Cirripedes has been re-labelled, re-mounted, and re-arranged. The recently presented type-specimen of the Trilobite *Bronteus halli* from the Middle Devonian near Gerolstein [I. 13,645], and a plaster cast of its counterpart already in the Museum, have been provided with printed labels and placed on exhibition. A cast and coloured drawing of *Oxyuropoda ligioides*, an Isopod from the Upper Devonian of Kiltorcan, have been exhibited with explanatory labels.

Number of specimens of Arthropoda registered, 303.

Echinoderma (Gallery 8).—The acquisitions registered, labelled, and incorporated during the year include :—Palæozoic Echinoderms, chiefly Pelmatozoa, from Canada (W. A. Parks, W. R. Smith), from Britain (G. H. Morton), from Northern Shan States, Burma (Geol. Surv., India), from Russia (F. A. Bather); Triassic Echinoderms, chiefly Crinoidea and Echinoidea, from the Raibl and Kossen beds (Munich Museum), from Germany (E. Masčke); Echinoids from the Cornbrash (J. F. Blake); Echinoids and Crinoids from the Corallian of Mexico (C. G. Rickards); Jurassic Echinoids, Scotland (Marcus Gunn); Jurassic Crinoids, France (A. Michalet); Crinoids and Echinoids from the Chalk of Devonshire (F. A. Bather), of Kent (Col. Cockburn), of Trimingham (A. C. Savin); Echinoids in Chalk flints, Aberdeen (A. M. Insch); Cretaceous Echinoids of France (De Luc, Caziot, A. Michalet) and of Asia Minor; Senonian Crinoids of Rügen (A. Laur).

The Clypeasters from Mediterranean localities have been revised, and specimens from Sardinia (D. Lovisato) have been registered and incorporated.

Progress has been made with the sorting and determination of the Wright collection of foreign Echinoidea.

Cystidea and other Echinoderms specially collected from the Palæozoic rocks of Sweden have been sorted and partly labelled. The slip-catalogue of Blastoidea has been kept up to date. Slip-catalogues are also in progress for the other classes of Echinoderma.

Number of specimens of Echinoderma registered: Echinoidea, 746; Asteroidea and Ophiuroidea, 47; Crinoidea, 411; Blastoidea, 18; Cystidea, 92. Total, 1,314.

Annelida (Gallery 8 and Workroom).—The acquisitions registered, labelled, and incorporated during the year include Annelids from the Chalk of Trimingham, Norfolk (Savin collection), and of Devonshire (Bather collection), from the Corallian of France (Charpy collection), and from the Palæozoic rocks of Britain (Morton collection).

Three exhibited series of special interest have been arranged: Annelids commensal with sponges, from the Chalk; rocks and shells bored in Tertiary times by *Polydora;* tubes built of Fish-debris, Coniferous leaflets, or Echinoderm fragments, and other tubes, all supposed to have been formed by Terebelloid worms. These complete the labelling and re-arrangement of the exhibited Annelids from the Cretaceous rocks of Britain.

The unexhibited collection of foreign Annelids has been transferred to drawers in the Workroom.

Number of specimens of Annelida registered, 161.

Brachiopoda (Gallery 8 and Workroom).—Progress has been made with the registration of the Walker collection.

The principal smaller collections registered, labelled, and incorporated during the year include:—Palæozoic Brachiopods from Burma (Geol. Surv., India); a Jurassic collection from France (L. Charpy); and specimens from the Chalk near Dover (Cockburn Bequest).

Number of specimens of Brachiopoda registered, 10,012.

Polyzoa (Gallery 8 and Workroom).—The collection of Cretaceous Cheilostome Polyzoa (about 5,000 specimens), from Rügen, Denmark, Holland, and North America, has been registered, mounted, and sorted as a preliminary to the preparation of Vol. III. of the catalogue of the Cretaceous forms. Recently acquired specimens of Polyzoa have been registered, labelled, and incorporated, and include the Möckler collection from the Chalk of Wiltshire, Sussex, and Germany, the Savin collection from the Chalk of Trimingham, Norfolk, and the Charpy collection from the Jurassic of the Jura district.

Number of specimens of Polyzoa registered, 5,874.

Anthozoa and *Hydrozoa* (Gallery 10).—An exhibition of Jurassic Medusæ has been arranged, with explanatory diagrams and labels, in a special case between wall-cases 7 and 8.

Specimens have been registered, labelled and incorporated from the Chalk of England (Cockburn bequest) and of Rügen (Laur collection), the Trias of the Tyrol, the Silurian of New South Wales (Shearsby collection), and the Ordovician of S. Wales.

Number of specimens of Anthozoa and Hydrozoa registered, 469.

Porifera (Gallery 10).—Specimens of the problematical group Archæocyathinae (T. G. Taylor collection) have been registered and labelled. Chalk sponges from Devon and Dorset (Bather collection) and Corallian and Bathonian specimens from Northern France and the Jura district (Charpy collection) have been registered, labelled, and incorporated.

Number of specimens of Porifera registered, 163.

Protozoa (Gallery 10).—Many samples of rock in the collection of the late J. F. Blake have been washed and the contained fossils extracted, mounted, registered, and labelled. These include specimens from the Cretaceous and Tertiary of Galicia, Cretaceous and Jurassic of various localities in Russia, the phosphatic Chalk of Berkshire, the Margate Chalk, the Corallian of Weymouth, and the Middle and Upper Lias of Northamptonshire.

The specimens registered, labelled, and incorporated include: the Lowe collection from the Tertiary of Swan Island, off Honduras; and the Möckler collection from the Crag, the London Clay, Tertiary Beds of the Philippines, the Chalk of Hanover, the Lower Chalk of Wiltshire, the Chalk Marl, Gault, Kimmeridge Clay and Oxford Clay of various English localities.

Number of specimens of Protozoa registered, 3,582.

Plantæ (Gallery 10).—Progress has been made with the identification, labelling, and arrangement of the Cretaceous plant-remains. Numerous sections of fossil wood have been prepared in connection with this work.

The exhibited specimens of *Pachytheca* have been tableted and labelled in table-case 32.

Number of specimens of Plantæ registered, 481.

Tracks and Rock Specimens (Gallery 11).—A few small additions have been made to the exhibited collection.

Number of specimens registered, 1.

II.—*Duplicates and Exchanges.*

Duplicate fossils have been presented to Oxford University Museum; St. Andrews University Museum; University College, London; Bristol Museum; and Radcliffe Museum.

Exchanges of duplicate fossils have been made with the Sedgwick Museum, Cambridge; Imperial College of Science, London; University College, London; Geological Museum, University of Lemberg; and the Senckenberg Museum, Frankfurt.

III.—*Departmental Library.*

The additions to the Library, which have been registered, stamped, catalogued, and press-marked, comprise 301 new works and pamphlets, of which 73 were purchased and 228 presented; 703 parts of serials in progress, of which 354 were purchased and 349 presented; 231 sheets of maps, of which 69 were purchased and 162 presented. 30 photographs and 26 original drawings were presented. 219 volumes were bound during the year. 1,840 visits were paid to the Library.

The following is an alphabetical list of personal donors to the Library during the year :—

Ameghino, Dr. Florentino.
Andrews, Dr. Charles W.
Bather, Dr. Francis A.
Beasley, Henry C., Esq.
Bosca, Prof. E.
Canu, Prof. F.
Caziot, Commdt. E.
Crick, George C., Esq.
Daley, Chas., Esq.
Dautzenberg, Dr. Ph.
Delhaes, Dr. W.
Dunlop, Robert, Esq.
Fox, Samuel, Esq.
George, James, Esq.
Harmer, F. W., Esq.
Henriksen, Dr. G.
Horwood, A. R., Esq.
Hovey, Dr. E. O.
Jackson, J. Wilfrid, Esq.
Jaekel, Prof. O.
Jongmans, Dr. W. J.
Kershaw, Miss E. M.
Kilian, Prof. W.
Lewin, Joseph, Esq.
Liversidge, Dr. A.
Lowerison, Bellerby, Esq.
Maidwell, F. T., Esq.
Maplestone, C. M., Esq.
Mawson, Joseph, Esq.
Newton, R. Bullen, Esq.
Nowak, Dr. Jan.
Oswald, Dr. Felix.
Outes, Dr. Felix **F.**
Pavlow, Madame M.
Rigg, Herbert A., Esq.
Rogala, Dr. W.
Sandeman, Edward, Esq.
Scott, Dr. D. H.
Seward, Prof. A. C.
Shelford, R., Esq.
Sherborn, C. Davies, Esq.
Steinmann, Prof. G.
Stopes, Dr. Marie
Stuart-Menteath, P. W., Esq.
Thomson, F. Ross, Esq.
Wiman, Dr. Carl.
Woodward, Dr. A. Smith.
Woodward, Bernard B., Esq.
Woodward, Dr. Henry.

IV.—*Publications.*

The first part of the Catalogue of Marine Reptiles of the Oxford Clay has been published.

A new edition of the Guide Book to Fossil Reptiles, Amphibians, and Fishes has been prepared and published.

The MSS. of the second part of the Catalogue of Marine Reptiles of the Oxford Clay, and of Fossil Fishes (Supplement), have made progress.

Apart from the official publications issued by the Trustees, the following descriptive papers dealing with different parts of the collection, chiefly recent acquisitions, have been contributed to scientific journals during 1910 :—

By Dr. Woodward.

1. On some Permo-Carboniferous Fishes from Madagascar. Ann. Mag. Nat. Hist. [8], vol. v., pp. 1–6, pl. i., figs. 1–5.

2. Note on a Chelonian Skull from the Purbeck Beds of Swanage. Proc. Dorset Nat. Hist. Field Club, vol. xxx., pp. 143, 144, with plate.

3. On *Dipteronotus cyphus*, Egerton. Proc. Geol. Assoc., vol. xxi., pp. 322, 323.

4. On a Skull of *Megalosaurus* from the Great Oolite of Minchinhampton. Quart. Journ. Geol. Soc., vol. lxvi., pp. 111–114, pl. xiii.

5. On a Fossil Sole and a Fossil Eel from the Eocene of Egypt. Geol. Mag. [5], vol. vii., pp. 402–405, pl. xxxiii.

6. The Fossil Fishes of the English Chalk, Part VI. Mon. Palæont. Soc.

By Dr. Bather.

1. *Harpes bucco*, a new Silurian Trilobite from the Carnic Alps. Rivist. Ital. Paleont., vol. xv., pp. 116–120.

2. Some fossil Annelid burrows. Geol. Mag. [5], vol. vii., pp. 114–116.

3. Ordovician Cystidea from the Carnic Alps. Rivist. Ital. Paleont., vol. xvi., pp. 38–54, pl. ii.

4. Eine vermüthliche Echinodermenwurzel. Centralbl. f. Min., 1910, p. 556.

By Mr. Newton.

1. Notes on some Upper Palæozoic Shells from Madagascar. Ann. Mag. Nat. Hist. [8], vol. v., pp. 6–10, pl. i., figs. 6–11.

2. Notes on some Fossil non-Marine Mollusca and a Bivalved Crustacean (*Estheriella*) from Nyasaland. Quart. Journ. Geol. Soc., vol. lxvi., pp. 239–248, pls. xviii., xix.

3. On an undescribed *Anodonta* from the English Wealden Formation, with remarks on the other Unionidæ of the same Period. Proc. Malac. Soc., vol. ix., pp. 114–117, pl. i.

By Dr. Andrews.

1. Note on a Mounted Skeleton of a Small Pliosaur, *Peloneustes philarchus*. Geol. Mag. [5], vol. vii., pp. 110–112, pl. xii.

By Mr. Crick.

1. On *Belemnocamax boweri*, n.g. et sp. Proc Geol. Assoc., vol. xxi., pp. 360-365, pl. xxviii.

2. Note on two Cephalopods from the Chalk of Lincolnshire. Geol. Mag. [5], vol. vii., pp. 345–348, pl. xxvii.

3. Note on the Type-specimens of *Ammonites cordatus* and *Ammonites excavatus*, J. Sowerby. Tom. cit., pp. 503–505.

4. Snakestones. The Naturalist, 1910, pp. 145, 146.

By Mr. T. H. Withers.

1. Some New Species of the Cirripede genus *Scalpellum* from British Cretaceous Rocks. Geol. Mag. [5], vol. vii., pp. 151–159.

2. The Cretaceous Cirripede *Pollicipes lævis*, J. de C. Sowerby. Tom. cit., pp. 495–501

By Mr. C. Forster Cooper.

1. *Microchœrus erinaceus* (Wood) Ann. Mag. Nat. Hist. [8], vol. vi., pp. 39-43, pl. iii.

By Baron F. von Huene.

1. Ueber einen echten Rhynchocephalen aus der Trias von Elgin, *Brachyrhinodon taylori*. Neues Jahrb., 1910, vol. ii., pp. 29–61.

By Dr. R. Broom.

1. Observations on some Specimens of South African Fossil Reptiles preserved in the British Museum. Trans. Roy. Soc., S. Africa, vol. ii., pp. 19–25.

By Dr. R. H. Traquair.

1. Notes on Fossil Fish-remains from Nyasaland. Quart. Journ. Geol. Soc., vol. lxvi., pp. 249–251, pl. xix.

By Mr. E. S. Cobbold.

1. On some small Trilobites from the Cambrian Rocks of Comley (Shropshire). Quart. Journ. Geol. Soc., vol. lxvi., pp. 19–50, pls. iii.-viii.

By Dr. H. Woodward.

1. Supposed *Pholas*-borings from the Fayum, Egypt. Geol. Mag. [5], vol. vii., pp. 398–402.

2. On a Pygidium of *Bronteus* from the Devonian of Gerolstein, Eifel. Tom. cit., pp. 407–410.

3. A fragment of a Fossil in a Chalk Flint-pebble from the Sherringham Beach, Norfolk. Tom. cit., pp. 483-488.

By Dr. F. Schöndorf.

1. Ueber einige Ophiuriden und Asteriden des englischen Silur. Jahrb. Nassau. Ver. f. Naturk., vol. lxiii., pp. 206–256.

By Mr. H. L. Hawkins.

1. Some Ambulacral Structures in the Holectypoida. Geol. Mag. [5], vol. vii., pp. 349-353.

2. Jaw-apparatus of *Discoidea*. Tom. cit., p. 141.

By Mr. E. A. N. Arber.

1. Note on a Collection of Fossil Plants from the Neighbourhood of Lake Nyasa. Quart. Journ. Geol. Soc., vol. lxvi., pp. 237–239.

Various fossils in the Department of Geology have also been described and figured by Dr. R. H. Traquair, Mr. H. Woods, Mr. R. I. Pocock, Mrs. Shakespear, and Miss Elles, in the Monographs of the Palæontographical Society, vol. lxiv. for 1910.

V.—*Acquisitions.*

A.—*By Donation.*

Mammalia.—Maxilla of *Triconodon* from the Purbeck Beds, Swanage. *Presented by John Newton, Esq.*

Mandibular ramus and teeth of *Adapis*, and teeth of *Paloplotherium*, from the Oligocene of Hordwell, Hants. *Presented by Dr. W. M. Jeffreys.*

Mandibular ramus of *Microchœrus* and teeth of *Adapis*, from the Oligocene of Hordwell. *Presented by C. Forster Cooper, Esq.*

Mandibular ramus of a Rodent from the Oligocene of Tarrega, Spain. *Presented by Señor Don Francisco Clua.*

Molar of *Stegodon insignis*, two molars of *Rhinoceros sinensis*, and lower molars of *Bos*, from a Pliocene formation, Wan-Hsien, Szechuen, China. *Presented by F. R. Featherstone, Esq.*

Nineteen teeth and bones (of *Stegodon*, *Rhinoceros*, *Hippopotamus*, *Cervus*, and *Bos*), from the Kendeng Beds, Madioen Residency, Java. *Presented by Prof. Dr. W. Deecke.*

Proboscidean femur from the Siwalik Formation, Singu, near Mandalay, Upper Burma. *Presented by Captain A. W. Greig.*

Portion of molar of *Elephas namadicus* from a cavern, Belait district, Brunei, North Borneo. *Presented by H. C. Robinson, Esq.*

Remains of *Rhinoceros* from a freshwater deposit near Lake Victoria Nyanza, near Karungu. *Presented by C. W. Hobley, Esq.*

Piece of skin and hair of Mammoth from Great Ljachow, New Siberian Islands. *Presented by Dr. C. Wollossowitch.*

Eight bones of a small goat-like Artiodactyl from a cavern near Ronda, Spain. *Presented by Col. Willoughby Verner.*

A malformed antler of *Cervus* found under a gateway of old Newgate jail. *Presented by the Countess Albuquerque.*

Mastodon and other mammalian remains from the State of Oaxaca, Mexico. *Presented by Constantine J. Rickards, Esq.*

Remains of *Mastodon*, *Megatherium*, etc., from Punta S. Elena, Ecuador. *Presented by H. T. Burls, Esq., and Charles van Isschot, Esq.*

Skulls and mandibles of Rodents from a cavern, Last Hope Inlet, Patagonia. *Presented by J. A. Wolffsohn, Esq.*

Bones of Marsupials from Pleistocene deposits at Chinchilla, Condamine River, Queensland. *Presented by —. Bishop, Esq.*

Tooth of *Macropus* from Rockhampton, Queensland. *Presented by G. E. Blundell, Esq.*

Aves.—Three bones of Petrels from Bermuda. *Presented by Major A. J. Peile.*

Fragments of egg-shell of Ostrich from Nulla, Ken River, Barda, United Provinces, Central India. *Presented by E. Bidwell, Esq., M.B.O.U.*

Reptilia.—Vertebræ and scutes of *Steneosaurus* from Great Oolite, Chedworth, Gloucestershire. *Presented by Miss Boyer-Brown.*

Plaster cast of footprint (*? Iguanodon*) from Wealden, Jarvis Brook, Sussex. *Presented by Arthur F. Griffith, Esq.*

Vertebræ of *Paleryx* from Oligocene, Hordwell, Hants. *Presented by Dr. W. M. Jeffreys and C. Forster Cooper, Esq.*

Bones of Crocodile and Lizard from Pleistocene deposits at Chinchilla, Condamine River, Queensland. *Presented by —. Bishop, Esq.*

A collection of Recent limestones from Aldabra containing Chelonian bones. *Presented by Prof. J. Stanley Gardiner, F.R.S.*

Vertebra of large Lizard from a freshwater deposit near Lake Victoria Nyanza, near Karungu. *Presented by C. W. Hobley, Esq.*

Batrachia.—Fragment of Labyrinthodont jaw from the Ecca Shales, near Ladysmith, Natal. *Presented by Dr. F. H. Hatch.*

Humerus of Frog from Oligocene, Hordwell, Hants. *Presented by C. Forster Cooper, Esq.*

Pisces.—Fish-remains collected by Messrs. A. R. Andrew and T. E. G. Bailey from the Permo-Carboniferous of Nyasaland (described and figured in Quart. Journ. Geol. Soc., vol. lxvi., pp. 237–251). *Presented by the Director of the Imperial Institute.*

Scales of *Acrolepis* from the Ecca Shales, near Ladysmith, Natal. *Presented by Dr. F. H. Hatch.*

Fish-remains from the Karoo Formation of Rhodesia. *Presented by A. J. C. Molyneux, Esq., F.G.S.*

Vomerine dentition of *Ganodus* from the Stonesfield Slate. *Presented by John Alstone, Esq.*

Eight Fishes from the Upper Jurassic of Montsech, Lérida, Spain. *Presented by Dr. A. S. Woodward, F.R.S.*

Fish-remains from the Middle Barton Clay, Barton, Hants. *Presented by Allan E. Mahood, Esq., M.B.*

Tooth of *Notidanus* from the Coralline Crag, Boyton. *Presented by Alfred Bell, Esq.*

Fish and other vertebrate remains from the Pliocene of Tegelen-sur-Meuse, Belgium, described by E. T. Newton, Bull. Soc. Belge Géol., vol. xxi. (1907), p. 591, and vol. xxiv. (1910), p. 231. *Presented by Clement Reid, Esq., F.R.S., and Mrs. Reid, B.Sc.*

Mollusca—*Actinoceras* and six Gastropods from an Ordovician formation 60 miles S.W. of Hermannsburg, South Australia. *Presented by Henry T. Hillier, Esq.*

A Lamellibranch from the Ordovician of Ohio, U.S.A. *Presented by Miss E. C. Buckler.*

A Cephalopod, two Gastropods, and three Lamellibranchs from the Devonian of Ruppachthal, Nassau, and of Singhofen. *Presented by Upfield Green, Esq., F.G.S.*

A Pteropod and three Lamellibranchs from the Devonian Slates of San Roque, Bolivia. *Presented by William A. Rumbold, Esq.*

A portion of *Solenocheilus pentagonum* from the Carboniferous Limestone on the North Shore of Lower Lough Erne, near Leggs, Co. Fermanagh, Ireland. *Presented by Major Herbert Trevelyan.*

Four specimens of *Euomphalus* from the Upper Carboniferous of Yampupata, canton Copacabana, province of Omasuyos, dept. of La Paz, Bolivia. *Presented by Alexander L. Dun, Esq.*

Forty Mollusca, being part of a collection made by Messrs. A. R. Andrew and T. E. G. Bailey from the Quaternary and Permo-Carboniferous rocks of Nyasaland, described and figured by R. B. Newton in Quart. Journ. Geol. Soc., vol. lxvi. (1910), pp. 237–251, pls. xviii., xix. *Presented by the Director of the Imperial Institute.*

Two specimens of *Pleuromya* from the Lower Lias of Puriton, Somerset. *Presented by F. Möckler, Esq.*

Fourteen Ammonites from the Upper Lias of Perugia, Umbria, Italy. *Presented by R. N. C. Hunt, Esq.*

One *Pecten* from the Stonesfield Slate. *Presented by John Alstone, Esq.*

One *Pholadomya æqualis* from the Kimmeridge Clay, Swindon. *Presented by C. H. Gore, Esq.*

Nineteen Belemnites from the Kimmeridge Clay and others from the Sponge-gravel of Faringdon. *Presented by Ll. Treacher, Esq., F.G.S.*

Upper Jurassic Cephalopoda, Gastropoda and Lamellibranchia, Lower Cretaceous Lamellibranchia and freshwater shells of doubtful age from the state of Oaxaca, Mexico. *Collected and presented by Constantine J. Rickards, Esq.*

Four Gastropods and eight Lamellibranchs from the Lower Cretaceous of the I. of Wight. *Presented by Colonel Worthington Wilmer.*

Four Belemnites from Hundleby, near Spilsby, Lincolnshire. *Presented by Arthur Burnet, Esq.*

The type-specimen of *Belemnocamax boweri* (Crick, Proc. Geol. Assoc., vol. xxi., 1910, pl. xxviii., fig. 1), from the Totternhoe Stone, Welton Vale, near Louth. *Presented by Rev. C. R. Bower.*

Four specimens of *Actinocamax granulatus* from the Upper Chalk of Beverley, and a fragment of *Belemnitella mucronata* from the drift of Hornsea, Yorkshire. *Presented by J. W. Stather, Esq.*

One Cephalopod and thirty Lamellibranchs in flint-pebbles from Peterhead. *Presented by A. M. Insch, Esq.*

A portion of a large shell of *Inoceramus* from the Upper Chalk, Grays, Essex. *Presented by Col. C. E. Shepherd.*

Five Cephalopods and one Lamellibranch from the Upper Cretaceous of Seaton, Devon, and of Studland, Dorset. *Collected and presented by Dr. F. A. Bather, F.R.S.*

Hippurites and other Mollusca from the Upper Cretaceous of Lérida, Spain. *Collected and presented by Dr. A. S. Woodward, F.R.S.*

Five Lamellibranchs and one Gastropod from Lower Oligocene (Magellanian formation), Punta Arenas, Patagonia. *Presented by G. M. Hall, Esq.*

Ten Lamellibranchs from the Miocene of Oran province, Algeria. *Presented by Lt.-Col. Thomas English, F.G.S.*

A hundred and forty Pliocene Mollusca obtained by the donor from Petroleum Wells in Roumania. *Presented by Harold Dabell, Esq.*

Twenty-four Lamellibranchs from the Pliocene deposits near Nicosia, Cyprus. *Presented by General Sir Robert Biddulph, G.C.B.*

Thirty-one Mollusca, collected by the donor from an old beach deposit near Cape Coast Castle, W. Africa. *Presented by A. Ffoulkes, Esq.*

Twenty marine Mollusca from a Pleistocene deposit, North British Borneo. *Presented by I. A. Stigand, Esq., F.G.S.*

A natural cast of *Cardium* from the Tertiary of Loanda, Angola, West Africa. *Presented by Dr. W. J. Ansorge.*

A hundred and twenty-three Gastropods and twenty-nine Lamellibranchs from Post-tertiary deposits in Bermuda. *Presented by Major A. J. Peile.*

Arthropoda.—Two Trilobites from the Ordovician of Llandrindod Wells. *Presented by Miss E. C. Buckler.*

One Trilobite from an Ordovician formation, 60 miles S.W. of Hermannsburg, South Australia. *Presented by Henry T. Hillier, Esq.*

One *Leperditia* from the Palæozoic of New South Wales. *Presented by A. J. Shearsby, Esq., F.R.M.S.*

A Trilobite from the Lower Devonian of the Bosphorus. *Presented by Dr. Henry M. Ami.*

A Trilobite (*Phacops latifrons*) of Devonian age from the Triassic drift of Silverton, near Exeter. *Presented by Rev. J. Heald Ward.*

A pygidium of *Bronteus halli* from the Devonian of Gerolstein, Eifel; the type-specimen, described and figured by H. Woodward, Geol. Mag., 1910, pp. 407–10. *Presented by the Directors of the North Devon Athenæum, Barnstaple.*

Two *Dalmanites* from the Devonian Slates of San Roque, Bolivia. *Presented by William R. Rumbold, Esq.*

One *Griffithides globiceps* from the Lower Carboniferous Limestone, Portishead. *Presented by N. G. Heaven, Esq.*

A portion of an Arthropod obtained by the donor from the Carboniferous Limestone, Llawnt, near Oswestry. *Presented by E. E. Lowe, Esq., F.L.S.*

Six Arthropoda in nodules from the Coal Measures, Coseley, near Dudley. *Presented by J. S. Neil, Esq.*

Four Crustacea collected by Messrs. A. R. Andrew and T. E. G. Bailey from the Permo-Carboniferous rocks of Nyasaland; described by R. B. Newton, Quart. Journ. Geol. Soc., vol. lxvi (1910). *Presented by the Director of the Imperial Institute.*

Two Crustacean remains from the Karoo formation of Rhodesia. *Presented by A. J. C. Molyneux, Esq., F.G.S.*

One Crustacean from the Stonesfield Slate. *Presented by John Alstone, Esq.*

The chela of a Crustacean from the Portland Stone ("Shrimp bed"), Dancing Ledge Quarry, near Swanage. *Presented by Horace W. Monckton, Esq., F.P.L.S.*

A Crustacean claw from the Upper Cretaceous, Denniston Coal Mine, New Zealand. *Presented by Prof. Charles P. Chilton.*

Crustacean remains from the Middle Barton Clay, Barton, Hants. *Presented by Allan E. Mahood, Esq., M.B.*

Five Pliocene Ostracods, obtained by the donor from Petroleum Wells in Roumania. *Presented by Harold Dabell, Esq.*

Four Crustaceans from Post-tertiary deposits in Bermuda. *Presented by Major A. J. Peile.*

Two specimens of gum-opal dredged off Sierra Leone, containing (1) a larva of a Hemipteron, and (2) an egg-capsule of a Mantid. *Presented by R. A. C. Hunt, Esq.*

Echinoderma.—Three specimens of *Pisocrinus* from the Silurian, New South Wales. *Presented by A. J. Shearsby, Esq., F.R.M.S.*

Three gutta-percha squeezes of Ludlow Asteroids. *Presented by Dr. Fr. Schöndorf.*

Asteroid from the Devonian, Pilton Beds, Downend, near Saunton, N. Devon. *Presented by Miss Rachel Workman.*

Three Lower Carboniferous Echinoids from Missouri and Indiana. *Presented by Dr. R. T. Jackson.*

Nineteen Blastoids from the Carboniferous of Kentucky and Tennessee. *Presented by Miss E. C. Buckler.*

Ten radioles of *Cidaris poculiformis* from the Upper Trias, Kotel, Bulgaria. *Presented by Dr. P. Bakalow.*

One *Isocrinus* from the Lower Lias of Charmouth, Dorset. *Presented by W. D. Lang, Esq.*

Nine specimens of *Isocrinus* from the Great Oolite and Lias of Gloucestershire and Warwickshire. *Presented by Linsdall Richardson, Esq., F.G.S.*

Upper Jurassic Echinoderma from the State of Oaxaca, Mexico. *Collected and presented by Constantine J. Rickards, Esq.*

Eighteen Echinoderma in flint pebbles from Peterhead. *Presented by A. M. Insch, Esq.*

Eighty-two Echinoderma from the Upper Cretaceous, Seaton, Devon, and Studland, Dorset. *Collected and presented by Dr. F. A. Bather, F.R.S.*

One cup-plate and seven brachials of *Uintacrinus*, collected by the donor in the Chalk of Oisème, near Chartres, Eure-et-Loire. *Presented by Monsieur Marius Filliozat.*

Two specimens of *Echinolampas ovum-serpentis* from the Eocene (?) of Naparima, Trinidad. *Presented by R. J. Lechmere Guppy, Esq.*

Three specimens of *Clypeaster lovisatoi* and allies, and a plaster cast of the type-specimen of *Clypeaster pillai* from the Miocene of Sardinia. *Presented by Prof. Domenico Lovisato.*

Annelida.—An Annelid tube from the Upper Greensand of Betchworth, Surrey, noticed as "large Baculite" in Proc. Geol. Assoc., vol. xxi., p. 485. *Presented by G. E. Dibley, Esq., F.G.S.*

Five Annelids from the Upper Cretaceous of Seaton, Devon, and of Studland, Dorset. *Collected and presented by Dr. F. A. Bather, F.R.S.*

An Annelid from the Totternhoe Stone of Welton Vale, Louth. *Presented by C. Davies Sherborn, Esq., F.G.S.*

Brachiopoda.—Six Brachiopods from an Ordovician formation sixty miles S.W. of Hermannsburg, South Australia. *Presented by Henry T. Hillier, Esq.*

Twenty-eight Brachiopods from the Ordovician and Silurian of Ohio and Tennessee. *Presented by Miss E. C. Buckler.*

Two *Orthotetes* from the Upper Silurian, and two *Spirifer yassensis* from the Middle Devonian of New South Wales. *Presented by A. J. Shearsby, Esq., F.R.M.S.*

Twenty-five Brachiopods from the Lower Devonian of the Bosphorus. *Presented by Dr. Henry M. Ami.*

Two Brachiopods from the Lower Devonian of Singhofen, Germany. *Presented by Upfield Green, Esq., F.G.S.*

Twelve Brachiopods from the Devonian of Szechuen, China. *Presented by Rev. W. N. Fergusson.*

Four Brachiopods from the Devonian Slates of San Roque, Bolivia. *Presented by William R. Rumbold, Esq.*

Thirty-seven Brachiopods from the Upper Carboniferous of Yampapata, canton Copacabana, province of Omasuyos, dept. of La Paz, Bolivia. *Presented by Alexander L. Dun, Esq.*

One interior dorsal valve of *Productus horridus* from the Permian of Rainsley Hill, North Durham. *Presented by H. Eliot Walton, Esq.*

Upper Jurassic Brachiopods from the State of Oaxaca, Mexico. *Collected and presented by Constantine J. Rickards, Esq.*

Six Brachiopods from the Upper Cretaceous of Seaton, Devon, and Studland, Dorset. *Collected and presented by Dr. F. A. Bather, F.R.S.*

Six Brachiopods in flint pebbles from Peterhead. *Presented by A. M. Insch, Esq.*

Polyzoa.—A piece of Polyzoa-bearing shale of Wenlock age, from near Wisby, I. of Gotland. *Presented by Dr. F. A. Bather, F.R.S.*

One Polyzoan from the Lower Devonian of the Bosphorus. *Presented by Dr. Henry M. Ami.*

Four Polyzoa from the Lower Greensand of the I. of Wight, and one from the Lower Greensand of Faringdon, Berks. *Presented by Llewellyn Treacher, Esq., F.G.S.*

Ten Polyzoa from the Upper Cretaceous of Seaton, Devon, and of Studland, Dorset. *Collected and presented by Dr. F. A. Bather, F.R.S.*

Six Polyzoa in flint pebbles from Peterhead. *Presented by A. M. Insch, Esq.*

A new species of Polyzoan from the Chalk of S. Elkington, W. of Louth, Lincs. *Presented by Charles S. Carter, Esq.*

Two specimens of *Cribrilina* from the English Chalk. *Presented by H. J. Osborne White, Esq., F.G.S.*

Thirty-seven Polyzoa from the Upper Cretaceous of Lérida, Spain. *Collected and presented by Dr. A. S. Woodward, F.R.S.*

Anthozoa and *Hydrozoa.*—A specimen of *Didymograptus nitidus* from the Skiddaw Slate, near Keswick. *Presented by J. Postlethwaite, Esq., F.G.S.*

Four specimens of Graptolitic Slate from the Og-fan Gold Mine, Llanpump-saint, Caermarthenshire. *Presented by H. T. Burls, Esq.*

Twelve Upper Silurian Corals from New South Wales. *Presented by A. J. Shearsby, Esq., F.R.M.S.*

Five Corals from the Lower Devonian of the Bosphorus. *Presented by Dr. Henry M. Ami.*

Four pieces of Devonian Stromatoporoid from Devonshire. *Presented by A. J. Jukes-Browne, Esq., F.R.S.*

A piece of Carboniferous Limestone containing Corals from Dunbar, Scotland. *Presented by James Galloway, Esq., M.D*

A Coral from the Carboniferous of Kentucky. *Presented by Miss E. C. Buckler.*

Two Corals from the Lower Greensand, I. of Wight. *Presented by Lieut.-Col. L. Worthington Wilmer.*

Two Corals from the Upper Cretaceous of the S.W. of England. *Collected and presented by Dr. F. A. Bather, F.R.S.*

Seventy-nine Corals from the Upper Cretaceous of Lérida, Spain. *Collected and presented by Dr. A. S. Woodward, F.R.S.*

A Coral in a flint pebble from Peterhead. *Presented by A. M. Insch, Esq.*

Porifera.—Ten specimens of *Archæocyathus* and allied fossils from the Palæozoic of S. Australia. *Presented by T. Griffith Taylor, Esq., B.Sc.*

Pieces of Neocomian Sponge-gravel from Faringdon, Berks. *Presented by Ll. Treacher, Esq., F.G.S.*

Six Sponges from the Upper Cretaceous of Seaton, Devon, and of Studland, Dorset. *Collected and presented by Dr. F. A. Bather, F.R.S.*

Two Upper Chalk sponges from gravel, Kempston, Beds. *Presented by G. C. Crick, Esq., A.R.S.M.*

Three sponges in flint pebbles from Peterhead. *Presented by A. M. Insch, Esq.*

Protozoa.—One *Webbina* from the Lower Lias, Charmouth, Dorset. *Presented by W. D. Lang, Esq.*

Alveolina-limestone from the provinces Lérida and Santander, Spain. *Collected and presented by Dr. A. S. Woodward, F.R.S.*

Three Eocene rocks with shell-fragments and Foraminifera from Borneo. *Presented by I. A. Stigand, Esq., F.G.S.*

Fourteen Foraminifera from the Eocene (?) of Trinidad. *Presented by R. J. Lechmere Guppy, Esq.*

Plantæ.—Five specimens of *Pachytheca* from the Lower Old Red Sandstone, Sandy Hole, S. Pembrokeshire. *Presented by A. L. Leach, Esq., F.G.S.*

Nine plants from the Carboniferous, Rockwood, Tennessee. *Presented by Miss E. C. Buckler.*

A fossil fruit from the Coal Measures, Barnsley, Yorkshire. *Presented by Mrs. Ricardo.*

Sixty-eight plants collected by Messrs. A. R. Andrew and T. E. G. Bailey from the Permo-Carboniferous rocks of Nyasaland; described by E. A. N. Arber in Quart. Journ. Geol. Soc., vol. lxvi. (1910). *Presented by the Director of the Imperial Institute.*

Eight fossil plants from the Karoo Formation of Rhodesia. *Presented by A. J. C. Molyneux, Esq., F.G.S.*

Nucules of *Chara lævigata* from clay in the Forest Marble, Tarlton, Gloucestershire. *Presented by C. Upton, Esq.*

One plant from the Stonesfield Slate. *Presented by John Alstone, Esq.*

Three pieces of fossil wood from the Neocomian of Woburn Sands, Beds. *Presented by Rev. F. F. Hort, M.A.*

A piece of wood, bored apparently by Mollusca, from the Gault of Dinton, near Salisbury. *Presented by Rev. Cecil N. Goddard, M.A.*

Twenty-seven microscope-slides of Japanese Cretaceous Plants, being the original specimens described and figured by the donor and Prof. K. Fuji, Phil. Trans., 1910. *Presented by Miss Marie C. Stopes, D.Sc.*

Eocene or Cretaceous Plant-remains from Lataband, near Kabul, Afghanistan. *Presented by Dr. Walter Saise.*

Thirty-four Cretaceo-tertiary plant-remains collected by the donor in Northern Japan. *Presented by Miss Marie C. Stopes, D.Sc.*

Twelve Pliocene plants (*Chara*, &c.) from Petroleum-wells in Roumania, collected by the donor. *Presented by Harold Dabell, Esq.*

Post-pliocene plant-remains collected by the donor from the State of Oaxaca, Mexico. *Presented by Constantine J. Rickards, Esq.*

Pieces of fossil wood found with *Elephas primigenius* in Pleistocene mud, Selsey Bill. *Presented by Edward Heron-Allen, Esq., F.L.S.*

Plant-seeds from the Forest-Bed peat, West Runton, and from a Recent deposit, County Hall, Waterloo. *Presented by A. Santer Kennard, Esq., F.G.S.*

Rocks.—Two specimens of a recent Gastropod shell encrusted with a calcareous structure, from a river-bed near Palenque, State of Chiapas, Mexico. *Presented by C. J. Rickards, Esq.*

Portion of a Glaciated pavement found by the donor below Dwyka Conglomerate at Mooiklip, Vryheid district, Natal. *Presented by Dr. F. H. Hatch, F.G.S.*

Two Chalk flints simulating Mammalian bones. *Presented by W. Carter, Esq.*

B.—*By Purchase.*

Mammalia.—A skull, mandible and vertebral column of *Moeritherium*, and a skull of *Zeuglodon*, from the Middle Eocene of the Fayum, Egypt.

Nine teeth of *Stegodon* and *Rhinoceros*, and one bovine tooth, from a Pliocene deposit in Szechuen, China.

A collection of mammalian remains (*Hippopotamus pentlandi, Cervus*, etc.) from caverns, Crete (Miss D. M. A. Bate).

A model of the skull and mandible of *Megaladapis insignis*.

Casts of human skull, mandible and femur from Galley Hill, Kent.

Casts of a human skull and of its brain-cavity, from Gibraltar.

Aves.—A Wealden bird-bone, figured by Prof. H. G. Seeley, Quart. Journ. Geol. Soc., vol. 55 (1899).

Twelve bones of the Dodo, collected by the late George Clarke in the Mare-aux-Songes, Mauritius.

Reptilia.—Reptiles from the Karoo Formation of S. Africa, being the final instalment of the H. G. Seeley Collection, including the type skull of *Diademodon entomophonus* and figured scutes of *Pariasaurus*, numerous remains of *Dicynodon*, a skull of *Ptychognathus* and of *Procolophon*, and remains of *Erythrosuchus, Cynognathus*, etc.

A skull of *Ichthyosaurus* from the Lower Lias, Lyme Regis.

A skeleton of *Steneosaurus*, a skull and skeleton of *Metriorhynchus*, a skull and mandible of *Peloneustes*, and three eye-plates of *Pliosaurus* from the Oxford Clay of Peterborough (Leeds Collection).

Homœosaurus from the Lithographic Stone of Bavaria.

Geosaurus, an unique specimen, showing the triangular tail-fin of this marine Crocodile, from the Lithographic Stone of Bavaria.

A skeleton of *Petrosuchus* and two Chelonian remains from the Purbeck of Swanage.

Reptilian bones from the Cambridge Greensand.

Chelonian bones from the English Chalk.

Portions of two skeletons of *Trachodon* from the Cretaceous Laramie Formation of Converse County, Wyoming, U.S.A.

Pisces.—*Mesacanthus, Euthacanthus*, and an Acanthodian jaw, from the Lower Old Red Sandstone, Turin Hall, Forfar.

Two scales of *Ctenodus* from the Coal Measures, Coseley, Staffs.

Three Triassic fishes from Hallein, Austria.

A Caturid fish from the Lower Lias, Lyme Regis.

A caudal scute of *Gyrosteus* from the Upper Lias, Whitby.

Associated teeth of *Asteracanthus* and bones and scales of *Lepidotus* from the Oxford Clay of Peterborough (Leeds Collection).

Ischyodus, Aspidorhynchus, Undina, and three other fishes from the Lithographic Stone, Bavaria.

A mandibular tooth of *Ischyodus* from the Faringdon Greensand.

Leptotrachelus from the Lower Cretaceous, Comen, Istria.

Macropoma precursor, a maxilla of *Portheus* and ten other fish-remains from the English Chalk.

Fish-fragments from the Middle Eocene of the Fayum, Egypt.

Mollusca.—Two *Orthoceras* from the Bala Limestone, Keisley.

Two *Nautilus* from the Middle Devonian, Eifel.

Three Devonian Goniatites from Brilon.

Nine Cephalopods from the Carboniferous Limestone of Belgium.

Seventy-four species of Triassic Mollusca from the Bosphorus.

Thirty-five species of Triassic Cephalopoda.

A hundred and twenty-eight species of Trias Mollusca from Austria.

A hundred and forty-one Mesozoic Mollusca from the S. of France.

Twenty Cephalopods of twelve species from the Dogger of Unterwalden, Switzerland.

A *Nautilus* from the Oolite, N. Germany.

Plesioteuthis from the Lithographic Stone, Bavaria.

Thirteen Ammonites from the Wealden, Gronau, Westphalia.

Twenty Mollusca from the Lower Greensand of Kent.

Six Lamellibranchs, one Gastropod, seven *Nautilus*, seven Ammonites, three *Macroscaphites* and three Belemnites, from the Hythe Beds, Bensted's Quarry, Aylesford, Kent.

Three Mollusca from the Faringdon Greensand.

A hundred and seventy miscellaneous English fossils, chiefly Cephalopods (Hilton Price Collection) from the Gault. Also *Exogyra canaliculata* and *Hamites sp.* from the Gault.

Fifteen Ammonites and one *Nautilus* from the English Chalk; and one *Heteroceras* from the Chalk of Cuxton, Kent.

A fossil shell in a Chalk flint from the bank of the R. Colne, near Watford.

Twenty *Scaphites* and *Hamites* and one Belemnite from the Yorkshire Chalk.

Fifteen Lamellibranchia from the Cretaceous of France.

A block of shell-limestone and five Mollusca from the Cretaceous of the Lebanon.

Five Lamellibranchs from the Cretaceous of Waels, Belgium.

Two *Heterotissotia* and two *Buchioceras* from the Senonian of Peru.

Eighteen non-marine Gastropoda from the Oligocene, Creechbarrow, Dorset.

Sixteen Pliocene Mollusca from Vienna.

Thirty-two Pleistocene non-marine Mollusca from Madeira.

Twenty-four species of Quaternary Mollusca from Weimar.

Arthropoda.—Twenty-four Trilobites from the Ordovician of Portugal and Norway, Devonian of Turkey, and Cambrian of Italy.

Cheirurus from the Silurian, Malvern.

About a hundred and fifty specimens of Arthropods from the Coal Measures, Coseley, Staffs.

A *Limulus* from the Lithographic Stone of Bavaria.

Seventeen plates of Cirripedia from the Cretaceous of Westphalia and Belgium.

Xanthopsis bispinosus, from the Eocene of Highgate.

Forty-eight Entomostraca from the Tertiary of the Philippines.

Echinoderma.—One Silurian Crinoid from Kentucky.

Three Cystids from the Lower Silurian of Thuringia.

Nine Cystids from Bohemia.

Thirteen Devonian Asteroids from Bundenbach.

An Echinoid and two Crinoids from the Carboniferous Limestone of Belgium.

A slab of Muschelkalk with *Ophioderma* from Scharley, near Beuthen, Upper Silesia.

Three *Solanocrinus* from the Cenomanian, Bohemia.

Eight Cretaceous Crinoids from Peru, and one from France.

A hundred and forty-five Mesozoic Echinoderma from S. France (Charpy Coll.).

The type-specimen of *Millericrinus charpyi,* from the Corallian of Andelot, near St. Amour (Jura).

Polyzoa.—Eighty-two Polyzoa from the Chalk, Seaford.

Four hundred Polyzoa from the Upper Chalk, Lüneburg.

Anthozoa.—A hundred and forty-three Trias Corals from the Tyrol.

Six Mesozoic Corals from the South of France.

Four Medusæ from the Lithographic Stone, Bavaria.

Porifera. — Two Receptaculites from the Silurian of Tennessee.

Protozoa.—A hundred and eighty-two slides of Foraminifera from the Lias of Würtemberg, including about three hundred and eighty specimens described and figured by A. Issler, Palæontographica, vol. 55 (1908).

Twenty-five Mesozoic Foraminifera from the South of France.

Three hundred and seventy-three Foraminifera from the English Oolite.

A hundred and fifty-seven Foraminifera from the Chalk of Lüneburg.

Two hundred and forty-three Foraminifera from the Coralline Crag.

Sixty-seven Foraminifera from the Tertiary of the Philippines.

Plantæ.—*Psilophyton* from the Old Red Sandstone, Turin Hill, Forfar.

Palæoxyris and various plants from the Coal Measures of Coseley, Staffs.

Nine micro-slides of plants from the Coal Measures of Germany.

Eight *Glossopteris*-remains from the Klip River, Cape Colony.

Eleven Rhætic plants from Bayreuth.

The Marcus Gunn Collection of about two hundred specimens of Jurassic plants from Sutherland.

A fossil plant from the Purbeck Beds.

A fruit from the Gault of Folkestone.

Twenty-four plant-remains from the Cretaceous of Europe and Asia.

C.—*By Exchange.*

The type skull of *Dicynodon curvatus*, Owen, from the Karoo Formation of Cradock, Cape Colony.

Three fishes (*Meletta*, *Amphisyle*) and one Crustacean (*Cœloma*), from the Oligocene of Hesse Darmstadt.

Three specimens of *Inoceramus* and two Scaphites from the Senonian of Galicia, Austria.

An abnormal specimen of *Scaphiocrinus multiplex* from the Carboniferous of Mjatschkowa, Moscow.

Twenty-nine plant-remains from the Lower Keuper of Bromsgrove, Worcestershire, collected by L. J. Wills, Esq.

The total accessions during 1910 are as follows:—

A.—VERTEBRATA:		
By Donation	192	
„ Purchase	210	
„ Exchange	4	
		406
B.—INVERTEBRATA:		
By Donation	1,485	
„ Purchase	5,078	
„ Exchange	7	
		6,570
C.—PLANTÆ:		
By Donation	174	
„ Purchase	261	
„ Exchange	29	
		464
D.—ROCK SPECIMENS:		
By Donation	5	
		5
TOTAL		7,445

VI.—*Students and Visitors.*

The number of visits paid to the Department by students and other persons for the purpose of consultation or study during 1910 was 4,996.

VII.—*Demonstrations.*

Six parties were received in the Galleries of the Department of Geology, and demonstrations were given as follows:—

January 29th. — Polytechnic Natural History Society (16 members); Dr. Andrews.

February 26th.—The City of London College (7 members); Dr. Andrews.

March 5th.—Home Counties Archæological Society (31 members); Dr. Woodward.

March 12th.—Trinity Rambling Club (8 members); Dr. Woodward.

May 25th. — Bournemouth Natural Science Society (10 members); Dr. Woodward.

December 17th.—The Battersea Field Club (21 members); Dr. Andrews.

Arthur Smith Woodward.

Department of Mineralogy.

I.—*Arrangement.*

Ten new cubes, each containing five drawers, have been fitted beneath the table-cases in the Gallery; and have been utilised for the reception of reserve specimens belonging to the species analcite, cassiterite, and marcasite.

The models of the "Cullinan" diamond temporarily exhibited in the Central Hall, and the models of famous diamonds hitherto exhibited in a special case in the Mineral Gallery have all been re-arranged in a table-case of the General Collection.

The mineral collection bequeathed by the late Mr. Frederick Tendron, of Tunbridge Wells, has been sorted and examined; of the specimens selected, part have been labelled and exhibited in the General Collection, and part have been used for the formation of a series available for students.

A collection of minerals from Epprechtstein, Bavaria, presented by Professor Konrad Oebbeke, has been examined, and selected specimens have been labelled and exhibited in the General Collection.

One hundred and twenty-three boxes of mineral specimens have been received, unpacked, and examined; 116 boxes have been packed and despatched.

II.—*Registration, Indexing, and Cataloguing.*

All the specimens acquired during the year have been registered, numbered, labelled, and incorporated with the Collection.

The preparation of the slip-catalogues of the mineral-specimens in the collection has been continued for the Sulphides and Oxides. In the Sulphide Division slips have now been written for all the species, and all specimens referred to only in old catalogues have been entered in the General Register; permanent labels have been written, checked, and placed with the specimens of tennantite, bournonite, pyrargyrite, etc.; and faded register-numbers have been re-written. In the Oxide Division the slip-catalogue has been completed for Corundum. In the course of this work the exhibited specimens have been re-arranged on renovated trays, the reserve specimens have been re-arranged in the drawers, and most of the cut-stones have been placed in two large glazed boxes specially made for them. In the Division of the Silicates slips have been written for all specimens belonging to the species willemite to anthophyllite which have not been entered in the General Register.

The preparation of a separate slip-catalogue of the cut-stones in the Collection has been in progress.

The lists of apparatus and of mineral-sections have been put in slip form.

All the thin-slices of rocks prepared during the year and those belonging to the Phillips Collection have been microscopically examined, and have been entered in the slip-catalogue.

III.—*Preparation.*

Two hundred and thirty-one thin-slices of rocks have been prepared.

IV.—*Investigation.*

The crystallographic and chemical investigation of the green fluo-arsenate from the manganese-ore deposits of India has been completed, with the result that its identity with the rare mineral tilasite occurring at Långban, Sweden, has been established. Fermorite, a new arseno-phosphate of lime and strontia, from the same deposits has also been examined, and its optical characters and chemical composition have been for the first time determined.

The rare mineral schwartzembergite has been optically and chemically investigated, and has been shown to be a complex iodate and chloride of lead.

Crystallized products from tin-furnaces have been examined crystallographically and analysed.

Various sets of carat-weights have been compared, and an inquiry has been made into the history of the larger diamonds from South Africa, in order to ascertain the true weight of the "Cullinan" and other large diamonds. For this purpose also, new models of famous diamonds have been acquired and their volumes have been determined.

Crystals of the rare minerals phenakite and bertrandite from Cornish localities have been measured and determined.

Egyptian scarabs in the Collection at Bloomsbury, and stone implements collected by Dr. C. G. Seligmann in the Sudan and by Dr. M. A. Stein in Central Asia, have been examined, and the materials of which they consist have been determined.

Crystals of whewellite, presenting a new habit, from Burgk, Saxony, have been measured.

The "light-figures" displayed by crystals of phacolite from Co. Antrim have been studied.

In the chemical laboratory, quantitative analyses have been made of tilasite, fermorite, schwartzembergite and crystallized products from tin-furnaces, and many doubtful minerals have been qualitatively analysed.

V.—*Donations of Duplicates.*

Duplicate specimens of minerals have been given to the Kelvingrove Museum, Glasgow, and to Mr. J. S. Neil, of Wolverhampton.

VI.—*Departmental Library.*

Arrangement.—Letters relating to the business of the Department have been arranged in order.

Cataloguing and Press-marking.—Proofs of the Library Catalogue have been read and checked against the slip-catalogue in the Department.

919 volumes and 952 title-slips have been press-marked. All the accessions, including 816 plates, have been registered, catalogued, and stamped.

Accessions.—68 volumes of separate works, 31 periodicals (in 405 volumes and parts), 32 mining reports, 3 maps, 1 volume of photographs, and 3 portraits have been added to the Library. These were acquired as follows:—

By presentation.—10 volumes of separate works, 11 periodicals (in 135 volumes and parts), 34 pamphlets, 31 mining reports, 1 volume of photographs, and 3 portraits.

By purchase.—52 volumes of separate works, 20 periodicals (in 270 volumes and parts), 17 parts of works, and 2 maps.

By transfer.—6 volumes of separate works, 5 parts of works, 1 mining report, and 1 map.

Binding.—92 volumes have been bound.

VII.—*Publications.*

A new edition (14th) of the Introduction to the Study of Minerals has been issued.

The following papers, relating to specimens in the collection, have been published in the "Mineralogical Magazine and Journal of the Mineralogical Society," 1910, vol. 15:—

"On a Meteoric Stone from Simondium, Cape Colony": by Dr. G. T. Prior (p. 312).

"On an Analcite-basalt from Rathjordan, Co. Limerick": by Dr. G. T. Prior (p. 315).

"Analyses of Seligmannite, zinciferous Tennantite ('Binnite'), and Fuchsite from the Lengenbach quarry, Binnenthal": by Dr. G. T. Prior (p. 385).

"On the occurrence of Alstonite and Ullmannite (a species new to Britain) in a Barytes-witherite vein at the New Brancepeth Colliery, near Durham": by L. J. Spencer (p. 302).

"Notes on the weight of the 'Cullinan' diamond, and on the value of the carat-weight": by L. J. Spencer (p. 318).

"A (fifth) list of new mineral names, with an index of authors": by L. J. Spencer (p. 415).

"A camera lucida attachment for the goniometer": by Dr. G. F. Herbert Smith (p. 387.)

VIII.—*Acquisitions.*

1,105 specimens have been acquired, namely :—

733 minerals, 366 rocks, and 6 meteorites.

Exchanges of specimens have been made with the Hungarian National Museum, Budapest; Field Museum of Natural History, Chicago (through Prof. O. C. Farrington); Col. Washington A. Roebling, of Trenton, New Jersey; Signor L. Magistretti, of Milan; and Mr. A. J. Williamson, of Rushworth, Victoria, Australia.

The specimens acquired by presentation (arranged alphabetically according to donors), by bequest, and by exchange, and the more important of those obtained by purchase are as follows :—

Minerals.

By Presentation :

Apatite and fluor from the ruby mines at Mogok, Upper Burma : *by Frank Atlay, Esq.*

Magnetite from Vembanad, Travancore, India : *by Miss Annie Baker.*

Melanterite from Bournemouth : *by W. H. Barnes, Esq.*

New occurrences of Portuguese minerals, viz., Gold from Fisga, pyrrhotite from Montemor, and cupro-uranite from Sabugal : *by Antonio Maria d'Oliveira Bello, Esq.*

Cassiterite (" wood-tin ") from Bolivia : *by R. H. Bray, Esq.*

Scheelite from Jardine, Montana : *by Wilton G. Brown, Esq.*

Tourmaline, a faceted stone of a rich crimson colour : *by Sir Arthur H. Church, K.C.V.O., F.R.S.*

Limonite, pseudomorphous after iron-pyrites, from Sabinas, Coahuila, Mexico : *by W. Brodrick Cloete, Esq.*

Tourmaline from Wheal Kitty, St. Agnes, Cornwall : *by J. H. Collins, Esq.*

A set of minerals to illustrate the occurrence of china-clay in the St. Austell district, Cornwall ; also a set of trade samples of the prepared china-clay : *by J. M. Coon, Esq.*

Moonstone from Ceylon : *by M. Danapala, Esq.*

Wood-opal and turgite from New Guinea : *by C. A. Darling, Esq.*

Quartz crystals and bitumen lining a cavity in chalk, from Burham, Kent : *by G. E. Dibley, Esq.*

Fragments from three samples of vanadium ore (patronite, etc.) from Cerro de Pasco, Peru : *by the Director, Commercial Intelligence Branch, Board of Trade.*

Zeolites (apophyllite and natrolite), from the South African diamond mines : *by the Directors, De Beers Consolidated Mines, Ltd.*

Specimens of tilasite and fermorite (a new species named in the department), from the manganese-ore deposits of India: *by the Director, Geological Survey of India.*

Datolite from Mullion, Cornwall: *by the Director, H.M. Geological Survey.*

Telluride ores from Kalgoorlie, Western Australia: *by the Directors, Kalgurli Gold Mines, Ltd.*

Model of a gold nugget weighing 22 oz. and found in 1795 at Croghan Kinshelagh, Co. Wicklow: *by the Director, National Museum of Ireland.*

A valuable set of 18 isolated crystals of diamond (total weight 5·851 grams, about 29 carats) and one unusual specimen showing a crystal of diamond embedded in the matrix of "blue ground"; also samples of the "blue ground" from different depths in the mine, and samples of concentrates, including pyrope washed from the "blue ground"; from the Premier diamond mine, near Pretoria, Transvaal: *by the Directors, Premier (Transvaal) Diamond Mining Co., Ltd.*

Pitchblende, two specimens from Trenwith mine, St. Ives, Cornwall: *by the Directors, St. Ives Consolidated Mines.*

Fluor, white and powdery, from Stanhope, Weardale, Co. Durham: *by W. M. Egglestone, Esq.*

Precious opal from borate deposits at Death Valley, California: *by W. Feldenheimer, Esq.*

A magnificent group of sulphur crystals from Girgenti, Sicily; a large mass of prehnite with harmotome crystals, from Oberstein, Oldenburg, Germany: *by F. N. A. Fleischmann, Esq.*

Cobaltite with erythrite, from Cobalt, Ontario: *by the Foote Mineral Co.*

Mica and asbestos from Southern Manchuria: *by E. Fukano, Esq.*

Pinite, a large crystal, from Sellrain, Tyrol: *by the Rev. J. M. Gordon.*

A series of specimens (barytes, calcite, dolomite, quartz and hæmatite) from the iron mines of west Cumberland: *by J. Graves, Esq.*

Plaster model of a large faceted diamond: *by Messrs. J. R. Gregory & Co.*

Arsenic, crystallized nodules, from Akatani, Japan: *by Messrs. Hamel & Horley.*

Quartz twins and agalmatolite from Japan: *by R. Hattori, Esq.*

Doughtyite (a new species described by the donor) from Colorado; crystallized stannous sulphide from a Cornish tin furnace: *by Dr. William P. Headden.*

Opal, enclosing small crystals of iron-pyrites, from Great Mercury Island, New Zealand: *by Thomas Hick, Esq.*

Five faceted tourmalines, of various colours; one uncut and five faceted corundums, of artificial origin and of various colours, including a rich sapphire-blue; a yellow faceted zircon: *by E. Hopkins, Esq.*

Enargite, crystallized, from Formosa: *by T. Kawada, Esq.*

Diamond, two isolated crystals, one twinned and the other an irregular intergrowth, from Kimberley: *by Alexander Knaus, Esq.*

Fergusonite and agalmatolite from Japan: *by J. Kumazawa, Esq.*

Four cut and polished specimens of a massive variety of idocrase ("californite") from California: *by Dr. George F. Kunz.*

Marcasite nodules from chalk at Langrish, Hants: *by Colonel J. F. S. Mackenzie.*

Meerschaum, samples of various trade qualities and of partly manufactured articles, from Asia Minor: *by Daniel Magnus, Esq.*

Anatase and rock-crystal from Switzerland: *by F. R. Mallet, Esq.*

Various Australian minerals (davidite, amorphous zinc sulphide, stannite, and howdenite): *by Dr. Douglas Mawson.*

Limonite nodules from Wagna, British East Africa: *by G. J. Muir, Esq.*

Phosphorite and rock phosphates, collected by Dr. C. W. Andrews, F.R.S., from Christmas Island, Indian Ocean: *by Sir John Murray, K.C.B., F.R.S.*

A set of 22 specimens selected from a collection of minerals (including apatite, albite, fluor, tourmaline, topaz, etc.) from Epprechtstein, Fichtelgebirge, Bavaria; an occurrence of interest on account of its remarkable similarity to that at Luxulyan, Cornwall: *by Prof. Konrad Oebbeke.*

Polished jaspers and rhodonite from the Urals: *by Vassily Pavlovsky, Esq.*

Olivenite, erinite, tyrolite, mixite and pharmacosiderite from the Tintic district, Utah; cassiterite from Mexico; pitchblende from Dolcoath mine, Cornwall: *by Dr. Richard Pearce.*

Quartz crystals embedded in granular calcite, and fibrous barytes, from near Bristol: *by Spencer G. Perceval, Esq.*

Gold in quartz from Kahajan, Dutch Borneo; cuprite from Mexico: *by Frederick M. Perkins, Esq.*

Asbolite (cobalt ore) from Scar Crags, near Keswick, Cumberland: *by John Postlethwaite, Esq.*

Hutchinsonite and quartz from Switzerland: *by Dr. G. T. Prior.*

Fulgurite ("lightning tube") from Maldonado, Uruguay: *by C. E. R. Rowland, Esq.*

Andorite and tin ores (cassiterite) from various localities in Bolivia: *by William R. Rumbold, Esq.*

British minerals, collected by the donor, of which the occurrences have not been previously represented in the Collection, namely :—witherite from Llanidloes, Montgomeryshire; dolomite from Newport, Co. Tipperary; garnet from Perranzabuloe, Cornwall; carminite from Hingston Down, Cornwall; bitumen from Snailbeach mine, Shropshire; calamine from Sheshodonnell, Co. Clare; chabazite from Ramsley mine, Devonshire; heulandite from St. Ives, Cornwall: *by Arthur Russell, Esq.*

Corundum (ruby), graphite, etc., in crystalline limestone, from the Amir's ruby mines, Jagdalak, Afghanistan: *by Dr. Walter Saise.*

Olivine nodules in basalt, from Main Range, Rockhampton, Queensland: *by Major J. R. Sankey.*

A series of crystals of tourmaline from Mesa Grande, San Diego Co., California; beryl and idocrase from American localities: *by Ernest Schernikow, Esq.*

Calamine, and calamine pseudomorphous after calcite, from Scordale mines, Appleby, Westmorland; blende from Brownley Hill mine, Nenthead, Cumberland: *by L. J. Spencer, Esq.*

Calcite pseudomorph from Grant Land (collected during Commander R. E. Peary's Polar Expedition 1908-9): *by Mrs. L. M. Squarey.*

Chlorastrolite, two polished stones and two rough pebbles, from Isle Royale, Lake Superior: *by F. McMillan Stanton, Esq.*

Calco-uranite and other uranium ores from Sabugal, Portugal: *by Messrs. Percy Tarbutt & Co.*

Crude and refined saltpetre from Bengal: *by F. J. Walker, Esq.*

Plasma, and quartz crystals enclosing goethite, from Forfarshire: *by the Rev. Dr. J. P. Way.*

Ambrite and sulphur from New Zealand: *by M. Whitehead, Esq.*

Millerite and marcasite from Fifeshire: *by Jas. Wright, Jun., Esq.*

Garnets in pegmatite from Labrador: *by A. B. Wylde, Esq.*

By Bequest:

Thirty-nine choice specimens selected from the collection of the late Frederick Tendron, including:—several crystals of pyrrhotite, one a unique crystal measuring $5\frac{1}{2}$ inches across, a specimen of the rare mineral chalmersite, crystallized albite, dolomite, quartz, etc., from the gold mines of Morro Velho, Brazil; several fine crystallized specimens of native gold probably from Australia; and diamond in matrix from Brazil; 43 typical specimens from the same collection were also selected for the series available for students.

By Exchange:

Artinite (a new species), hydromagnesite, and titanolivine, from Val Malenco, Lombardy.

Vashegyite (a new species) and variscite, from Vashegy, Hungary.

Cassinite from Pennsylvania; ionite from Ione Valley, California; grahamite from West Virginia; hartleyite from Hartley, New South Wales.

Selwynite from Victoria, Australia.

By Purchase:

Two faceted pink beryls, and two tourmaline cat's-eyes, one pink and the other green, from Mesa Grande, San Diego Co., California.

Beryl (deeply corroded, rose-coloured crystals), tourmaline, and lepidolite, from the gem-mines of San Diego Co., California.

Barytes, groups of large crystals, and a fine group of twinned crystals of calcite, from the iron mines of west Cumberland.

Sartorite, hutchinsonite, and lengenbachite, from the Lengenbach quarry, Binnenthal, Switzerland.

A large polished mass of quartz pseudomorphous after crocidolite ("tiger-eye" and "hawk's-eye") from the Asbestos Mountains, Griqualand West, South Africa.

Tourmaline (rubellite), two isolated crystals, one weighing 2,693 grams, from Antsirabe, Madagascar.

Slices cut perpendicularly to the vertical axis of crystals of tourmaline, transparent with a beautiful zonal arrangement of different colours, from Madagascar.

Hambergite, two large crystals, a new occurrence from Madagascar.

Pink beryl, a faceted stone and uncut fragments, spodumene (kunzite), cordierite, and amazon-stone; from Madagascar.

Topaz, fine large isolated crystal, from Mason Co., Texas.

Uvarovite from Makri, Asia Minor.

Sagenite nets of rutile on calcite and on quartz from Tauern, Tyrol.

Argentite, a group of interpenetrating twinned cubes, and small dendritic groups, from Chañarcillo, Chili.

Hessite, large distorted crystals, with native gold, from Botes, Transylvania.

Spangolite in minute crystals, a new occurrence, from Sardinia.

Tremolite, a large group of bladed crystals, and large crystals of augite and scapolite, from Sebastopol, Renfrew Co., Ontario.

Various Japanese minerals, including fine crystals of blende.

Samsonite (a new species), a group of crystals on the matrix and an isolated crystal, from the Samson mine, Andreasberg, Harz.

Herderite, a large crystal, with cassiterite, etc., a rare specimen from the original locality in Saxony.

Proustite, a small group of crystals on calcite, from Chañarcillo, Chili.

Fluor, polished slabs of massive purple and green material, from the Belgian Ardennes.

Euclase, an isolated crystal rich in faces and a crystal in the matrix, from Boa Vista, Brazil.

Tourmaline, topaz and beryl, fine isolated crystals of gem-quality, from Minas Geraes, Brazil.

Bismuth, bismuthinite, wolframite, scheelite, molybdenite, cassiterite, etc., from the mining districts of northern Queensland.

Covellite, platy crystals ($2\frac{1}{2}$ inches across) with a brilliant brassy tarnish, from Butte, Montana.

Whewellite, beautifully developed twinned crystals, from Schlan, Bohemia, and from Burgk, Saxony.

Hemimorphite, a magnificent group of sheaf-like crystals, twinned groups of calcite crystals, and mimetite, from Santa Eulalia, Chihuahua, Mexico.

Twenty-six isolated crystals of diamond from the various mines at Kimberley, South Africa; total weight 9·442 grams.

Almandine, a polished ball showing "light-circles."

Lazurite (lapis-lazuli), portion of a large crystal, from Badakshan, Afghanistan.

The following mineral names added to the Museum List were previously not represented by specimens in the Collection :—

Adipite, alamosite, artinite, brugnatellite, calafatite, cassinite, ceruleite, cossyrite, doughtyite, fermorite, grahamite, hambergite, hartleyite, hoeferite, högtveitite, howdenite, ionite, joaquinite, maldonite, risörite, samsonite, tantalum, taramellite, vashegyite, vorbyevite.

Rocks.

By Presentation :

Stones dredged from the Atlantic by the repairing ship of the Anglo-American Telegraph Co., Ltd.: *by F. A. Bevan Esq.*

A set of 49 chips of alkaline rocks from various localities in New South Wales: *by the Department of Mines, Sydney, New South Wales*

A collection of 61 rock-specimens from the various diamond mines at Kimberley and from that of Jagersfontein, South Africa: *by the Directors, De Beers Consolidated Mines, Ltd.*

Volcanic dust which fell on the deck of H.M.S. "Irresistible," in the Bay of Naples during the eruption of Vesuvius, April 1906: *by Geo. Gadson, Esq.*

A collection of 106 rock-specimens, with thin sections, from the island of Vanua Levu, Fiji Islands: *by Dr. H. B. Guppy.*

Four rock-specimens from Antigua, West Indies: *by R. J. Lechmere Guppy, Esq.*

A set of 12 rock-specimens collected on a journey between Lake Chad and the Anglo-Egyptian Sudan: *by Dr. H. Karl W. Kumm.*

Porphyry and slate from Bitter Creek, Stewart, British Columbia: *by C. Maitland, Esq.*

A set of 12 rock-specimens to illustrate the occurrence of petroleum at Franzhoek, near Ficksburg, Orange River Colony: *by Dr. Julius Noth.*

A set of specimens of the rocks associated with tin ores in Bolivia: *by William R. Rumbold, Esq.*

Crystalline limestone and gneiss from Jagdalak, Afghanistan: *by Dr. Walter Saise.*

A set of 39 specimens collected in the Antarctic during Sir Ernest Shackleton's Expedition on the "Nimrod," 1907–9: *by Sir Ernest Shackleton, C.V.O.*

Two rock-specimens showing peculiar structures from Cornwall: *by C. Davies Sherborn, Esq.*

Trachytic rock from Ayrshire: *by John Smith, Esq.*

A small lot of specimens collected near Angora, Asia Minor: *by R. Campbell Thompson, Esq.*

Dolerite from bore-hole near De Villiers Kop, Orange River Colony: *by M. T. Wigham, Esq.*

Deposits from bed of Lake Ngami, Bechuanaland, South Africa: *by R. B. Woosnam, Esq.*

By Purchase:

A large polished slab of granite penetrated by a faulted dyke of basalt from St. Cloud, Minnesota.

Nepheline-syenite with corundum, anorthosite, amphibolite, and various other rocks, from Ontario.

Fifteen miscellaneous rocks from various localities in Pembrokeshire, Cumberland, and Westmorland.

Sixteen rock-specimens from various localities in North Wales.

Meteorites.

By Presentation:

Mokoia, Taranaki province, North Island, New Zealand; fragments, weighing 196·3 grams, of the stone which fell on November 26, 1908: *by the Curator of the Public Museum, Wanganui, New Zealand.*

By Exchange:

Leighton, Alabama; a slice, weighing 91·4 grams, of the stone which fell on January 12, 1907.

South Bend, Indiana; a slice, weighing 181 grams, of the iron found in 1904.

By Purchase:

Lampa, Sierra de Chicauma, Chili; a fragment weighing 220 grams.

Shewsbury, York Co., Pennsylvania, an etched slice, weighing 938 grams, of the iron found in 1907.

Goamus Farm, near Gibeon, German South-West Africa, an etched slice weighing 6,610 grams.

All these Meteorites belong to falls hitherto unrepresented in the Museum Collection.

IX.—*Students and Visitors.*

The number of visits recorded as made to the Department for the purposes of consultation or study is 850.

The Gallery being no longer reserved on particular days of the week for use by students, and study-series having been so arranged as to be directly accessible to the public, and so labelled as to render reference to the staff for information thereon almost completely unnecessary, it has become difficult to distinguish, for statistical purposes, "Students" of minerals from ordinary "Visitors," and stress can no longer be laid on the distinction.

X.—*Demonstrations.*

Demonstrations on the physical characters of minerals were given to the members of the Battersea Field Club on March 5, and to the members of the Croydon Natural History and Scientific Society on April 16.

G. T. Prior.

Department of Botany.

I.—*Arrangement and Conservation.*

During the past year 26,925 specimens have been incorporated with the Herbarium. This number includes 18,875 Flowering Plants, 142 Vascular Cryptogams, 81 Mosses, 563 Hepatics, 752 Lichens, 87 Algæ, and 6,425 Fungi.

Flowering Plants.—Collections have been mounted and incorporated wholly or in part as follows:—Various small British collections from various donors, including Hieracia from Rev. A Ley, Europe (Herb. Normale, Dörfler; European Rubi, Sudre), Stiria (Hayek), Sikkim (Botanic Gardens, Calcutta), Mandshuria (Komarov), Japan (Takeda), Malaya (Ridley), Sudan (A. F. Broun), Uganda (Scheffler), Congo Region (Kassner), Cameroons (Zenker), Gazaland (Swynnerton), South Africa (Dummer, Schlechter), Kentani District (Pegler), North America (principally from Marcus Jones), Bolivia and Paraguay (Fiebrig), Tobago (Broadway), Mexico (Purpus). Progress has been made with the selection, determination, and incorporation of the early Australian collections; and with the selection and incorporation of the herbarium of the late R. P. Murray (European and Canary Islands) so far as concerns the following families:—Crassulaceæ, Caprifoliaceæ, Valerianaceæ, Dipsaceæ, Rubiaceæ, Compositæ, Solanaceæ, Scrophulariaceæ. Various collections of the families Violaceæ and Sterculiaceæ have been mounted and incorporated; and also all unincorporated extra-European named specimens of the following families:—Rubiaceæ, Verbenaceæ, Selagineæ, Plantagineæ, Labiatæ, Caprifoliaceæ, Apocynaceæ, Loganiaceæ, and Valerianaceæ; and the number of unincorporated Compositæ has been considerably reduced. Work of revision and rearrangement has been done chiefly in the orders Piperaceæ, Umbelliferæ, Rubiaceæ, Gramineæ, and in the genus *Grewia* (African species).

Ferns.—The principal additions have been made by incorporation in the family Lomarieæ. Collections of ferns from East Africa, Japan, and elsewhere have been determined.

Bryophyta.—Additions have been made by incorporation of portions of the Jungermanniaceæ and Marchantiaceæ from Stephani's herbarium and from G. Davies's herbarium, and of moss-types from W. Mitten's herbarium. Work of revision has been done in several genera. Small collections, chiefly British, Japanese, and West Indian, have been determined.

Algæ.—Additions have been made by incorporation of North American marine Algæ, and of figures and tracings in the collection of Peridineæ. Work of revision has been done on the Udoteæ, the Flabellarieæ, the genus *Liagora;* and several collections of marine Algæ from the West Indies, Falkland

Islands, Indian Ocean, Singapore, Borneo, Australia, Kermadec Islands, Hawaii, and the British coasts have been investigated and determined.

Fungi.—Considerable additions have been made by incorporation in most of the large groups, both British and exotic, principally from W. Phillips's herbarium; the Uredineæ have also been augmented from other sources; a large series of drawings from W. Phillips's herbarium, illustrative of specimens in the general collection, has been mounted and incorporated. The British Basidiomycetes have been revised and rearranged according to Mr. Worthington G. Smith's Catalogue. Numerous British specimens and a collection from Africa have been investigated and determined.

Lichens.—Progress has been made with the incorporation of British Lichens. The principal group which has been under revision is the Pyrenocarpei. Numerous British specimens and collections from the West of Ireland, tropical America and Africa, Hawaii and New Zealand have been investigated and determined.

The cabinets in the Cryptogamic herbarium have been relabelled so as to facilitate reference to the plants.

Sloane Herbarium.—The volumes have been carefully gone through and specimens repaired or mounted where necessary.

Exhibition Series.—Various specimens have been added to the general series in the public gallery; and to the exhibition illustrating epiphytic plants. A series of British plants beautifully preserved by drying in sand, prepared and presented by Mrs. F. J. Godden, has been placed on exhibition; and two sheets of coloured drawings by Mr. Worthington G. Smith illustrating edible and poisonous fungi have been added to the fine exhibited series of drawings of fungi by the same artist. Progress has been made with the exhibition of a series of British Lichens and with the selection and preparation of specimens and drawings for an exhibition of British Hepatics. Progress has also been made with the general morphological exhibition in the Central Hall; the illustration of the general characters of Seed-plants has been almost completed and some work has been done towards the preparation of a similar exhibition illustrating the Cryptogams which will be placed in the adjoining bay. Some new models and specimens have been added to the Tree-Case.

Catalogues.—The *Monograph of the Orchids of Jamaica* by Mr. Fawcett and Dr. Rendle, and the second part of the *Catalogue of British Lichens* by Miss Annie Lorrain Smith, have been completed. Progress has been made with the preparation of a *Catalogue of the Sloane Herbarium* by Mr. James Britten and of the second edition of Lister's *Monograph of the Mycetozoa* by Miss Gulielma Lister. A *Guide* has been prepared to the series of coloured drawings by Mr. Worthington G. Smith of edible and poisonous mushrooms.

II.—*Investigation.*

Collections have been determined, either wholly or in part, from the following localities and collectors:—Gazaland (Swynnerton), Rhodesia (Monro), Nigeria (Talbot, Kitson), British North Borneo (Gibbs); the British species of the genera *Hieracium* and *Rubus* have been investigated and determined by specialists in the two genera, Rev. Augustin Ley and Rev. W. Moyle Rogers, and research work has been carried on in the genus *Crotalaria* (by Mr. Baker, who, in connection with this work has also studied the collections at Berlin and Brussels), on the tribe Hamelieæ and the genus *Canephora* (by Mr. Wernham), and on various genera of Algæ (by Mr. and Mrs. Gepp). The undetermined material from Tropical Africa of the orders Euphorbiaceæ, Santalaceæ and Loranthaceæ has been lent to the Director of the Royal Gardens, Kew, and determined by members of his staff in connection with the preparation of the "Flora of Tropical Africa"; specimens of the genus *Impatiens* from China have been lent to and determined by Sir J. D. Hooker, similarly specimens of the order Leguminosæ by Mr. S. T. Dunn, and of the Algal genus *Liagora* by Dr. Pilger, of the Royal Botanic Museum, Berlin. Work of investigation has been continued on various genera and species of the British Flora, especially the genera *Rubus, Fumaria, Ulmus, Quercus* and others, by various workers at British Botany, and work of investigation by numerous British and foreign Botanists has been carried out in many different orders and genera. In connection with work done in the Department specimens have been lent by the Government of Jamaica, the Royal Botanic Museum, Berlin, the Royal Botanic Museum, Munich, the Botanic Museum, Zürich, and Dr. G. Nichols, of Yale University, U.S.A.

III.—*Departmental Library.*

1. *Arrangement.*—A number of works which are out of date and seldom used have been removed from their former places to some supplementary shelves, thus making room for books in general use. Progress has been made with the work of mounting and incorporation in the plate collections of flowering plants and ferns and the rearrangement of those of the latter; 5,900 plates have been mounted during the year. A number of autograph letters have been incorporated with the collection.

2. *Cataloguing and Press-marking.*—The accessions have been registered, stamped, catalogued and press-marked, and the necessary alterations in press-marking of volumes removed to supplementary shelves have been made.

3. *Accessions.*—The additions during the past year have been, by donation, 51 volumes, 114 pamphlets; by purchase 189 volumes, 3 pamphlets—in all, 240 volumes, 117 pamphlets

These include 17 periodicals in 97 parts, presented, and 98 periodicals in 746 parts, purchased—in all, 115 periodicals in 843 parts.

The following is a list of the principal donors:—Her Grace the Duchess of Northumberland; J. G. Baker, F.R.S.; Señor Francisco do las Barras de Aragón; Signor Odoardo Beccari; Director, Botanic Gardens and Museums, Berlin; Rev. E. Blatter, S.J.; Dr. F. C. E. Børgesen; T. S. Brandegee, B.S.; Dr. J. Briquet; Secretaire de l'État Independant du Congo, Bruxelles; Dept. de l'Agriculture aux Indes Néerlandaises, Buitenzorg; Dr. William Carruthers, F.R.S.; Director, Royal Botanic Gardens, Peradeniya, Ceylon; G. C. Crick, F.G.S.; the Regius Keeper, Royal Botanic Garden, Edinburgh; Prof. A. J. Ewart; W. Fawcett, B.Sc.; Prof. C. Flahault; G. Goode, M.A.; Director, Gray Herbarium of Harvard University; Miss C. C. Haynes; Miss R. Hensman; Dr. W. Herter; Sir Joseph D. Hooker, O.M., G.C S.I.; Dr. J. Huber; Secretary of State for India; Director, Dept. of Agriculture in India; Prof. T. Johnson, D.Sc.; Dr. N. Kósanin; Prof. Henri Lecomte; Prof. C. A. M. Lindman; C. G. Lloyd, Esq.; Linnean Society of London; Royal Botanic Society, London; Royal Horticultural Society of London; Signor Ugolino Martelli; The Hon. the Secretary for Agriculture, New South Wales; Nederlandsche Botanische Vereeniging, Nijmegen; Director-General, Ordnance Survey; Prof. Francis Ramaley, M.S.; Clement Reid, F.R.S.; Mrs. Eleanor M. Reid; Rev. H. J. Riddelsdell, M.A.; H. N. Ridley, F.R.S.; W. W. Robbins, Esq.; W. E. Safford, Esq.; Director, Missouri Botanic Gardens, St. Louis, Mo., U.S.A.; Director, Botanical Museum of the Imperial Academy of Science, St. Petersburg; Prof. C. S. Sargent; Prof. C. Schröter; Dr. Hermon G. Simmons; Director, Botanic Gardens, Sydney, N.S.W.; Tōkyō Botanical Society, Tōkyō, Japan; United States National Museum, Washington, U.S.A.; Prof. Josef Velenovský; Madame A. Weber van Bosse; Carlos Wercklé, Esq.; Jean White, D.Sc.; J. Medley Wood, A.L.S.; Director, Botanic Garden and Museum, Zürich.

The following presentations other than books have been received:—20 maps of England and Wales and 1 of East Central Queensland; and 66 photographs of various botanists. The donors of these are included in the above list.

Sir Joseph Hooker has presented a bust of his father the late Sir William Jackson Hooker.

4. *Binding.*—152 volumes have been bound; these include five volumes of manuscript descriptions of plants by Dr. Solander (*see* Report for the year 1909). Several volumes have been repaired.

IV.—*Publications.*

(1) *Issued by the Trustees.*—A Monograph of the Orchids of Jamaica. By Mr. W. Fawcett and Dr. Rendle.

Guide to Mr. Worthington G. Smith's drawings of edible and poisonous mushrooms.

(2) *Issued by permission of the Trustees.*—Some New Jamaica Orchids. Part IV. By Dr. Rendle and Mr. W. Fawcett. (Journal of Botany.)

A new *Musa* from Uganda. By Dr. Rendle and Miss S. Greves. (Journal of Botany.)

Alabastra diversa. Part XIX. By Mr. Spencer Moore. (Journal of Botany.)

Contributions to R. M. Laing's account of Marine Algæ in Chilton's "Sub-antarctic Islands of New Zealand." By Mr. A. Gepp.

(3) *By Students of the Collections other than Members of the Staff.*—(1) Fungal Parasites of Lichens; (2) New or Rare Microfungi. By Miss A. Lorrain Smith. (Transactions, British Mycological Society.)

The British Roses (excluding Eu-caninæ). By Major A. H. Wolley-Dod. (Journal of Botany.)

Notes on British Elms. By the late Rev. A. Ley. (Journal of Botany.)

The genus *Euclea* in Australia. By Mr. W. P. Hiern. (Journal of Botany.)

A Ceterach génusz üj faja. (Species nova generis Ceterach.) By J. B. Kümmerle. (Beiblatt zu den Botanikai Közlemények.)

V. *Acquisitions.*

(1) *By Donation.*

Additions to the British Herbarium have been received from the following donors:—W. Barclay, Esq., 6 specimens of Roses; Rev. E. N. Bloomfield, 44 Old Suffolk Muscineæ from T. G. Cullum's Herbarium; Miss Bray, 3 specimens; H. H. Knight Esq., 2 rare Hepaticæ; Rev. Augustin Ley, 213 specimens of British Hieracia; Rev. E. S. Marshall, 115 specimens; Rev. H. J. Riddelsdell, 150 specimens; C. E. Salmon, Esq., 26 specimens; J. C. Shenstone, Esq., 1,000 photographs and negatives of British plants; H. Stuart Thompson, Esq., 3 photographs of habitat of *Spartina Townsendi* and 14 specimens; Prof. J. W. H. Trail, 2 specimens of varieties of *Rubus Idæus;* C. Waterfall, Esq., 3 specimens from Yorkshire; and single specimens from Miss R. E. Higgins, Messrs. A. Hall, C. G. Lloyd, W. R. Sherrin, P. Thompson and F. N. Williams.

The following donations have been made to the General Herbarium:—

Europe.

Eastern and Associated Telegraph Companies, 2 deep-water marine Algæ from the Straits of Gibraltar; W. Fawcett Esq., 7 specimens from North of Spain; F. Seymour Haden, Esq.

a collection of plants principally from Dauphiné; Mrs. Hort, a collection of Alpine and European plants by the late Prof. Hort; C. C. Lacaita, Esq., 13 specimens; Hon. N. C. Rothschild, specimens of Anemone from South of France; and single specimens from Messrs. E. A. Bowles and F. J. Duthie.

Asia.

H. N. Dixon, Esq., 6 Lichens from Kumaon; S. T. Dunn, Esq., 15 Phanerogams and 3 Cryptogams from China; C. H. Hobart, specimen of Orchid from Upper Burmah; Dr. H. Takeda, 70 specimens from Japan; T. Kawada, 23 specimens of Formosan woods; Miss Lilian Lyle, 3 Ferns and 4 Muscineæ from Japan; the Kwantung Government through Mr. Yamawaki, specimens of fruits and seeds, including 2 panel pictures.

Australia.

Miss D. M. Higgins, 150 specimens from South Australia collected by Miss Hussey; R. M. Laing, Esq., 50 marine Algæ collected in the Kermadec Islands by R. B. Oliver; A. H. S. Lucas, 5 marine Algæ from New South Wales and Tasmania.

Africa.

A. F. Broun, Esq., 200 Phanerogams and 2 Cryptogams from Sudan; E. Brown, Esq, 3 specimens from Uganda; Liberian Rubber Corporation, 136 Phanerogams and 13 Cryptogams from Liberia, collected by R. H. Bunting; F. Eyles, Esq., 25 Phanerogams and 3 Cryptogams from Rhodesia; R. Kemp, Esq., 2 Fungi from Kilimanjaro district; Dr. Karl Kumm, 8 specimens from Central Africa; C. F. M. Swynnerton, Esq., 1,758 Phanerogams and 26 Cryptogams from Gazaland; P. A. Talbot, Esq., 113 Phanerogams, 70 Cryptogams and 15 Fruits from South Nigeria; and single specimens from Messrs. N. E. Brown, W. Ledger and R. B. Woosnam.

America.

F. O'Driscoll, Esq., 124 specimens of Woods from Northern Argentina; Southern Pacific Railway Co., 3 framed photographs of *Sequoia gigantea* and Oregon Pine; W. R. Maxon, Esq., 4 specimens and 5 photographs of American ferns; Capt. J. F. Parry, 356 specimens of Arctic plants from Parry's Expedition; West India and Panama Telegraph Co., 5 marine Algæ from near Puerto Rico and Grenada; and single specimens from Messrs. H. Pittier and P. B. Whelpley.

Cultivated Plants.

W. E. Balston, Esq., 11 specimens of cultivated Orchids; E. A. Bowles, Esq., 8 specimens of cultivated *Galanthus;* Chelsea Garden, 68 specimens for exhibition purposes; J. T. Clifton, Esq., 3 specimens of cultivated Orchids; Director, Royal Gardens, Kew, 19 specimens of cultivated plants for exhibition purposes; James O'Brien, Esq., 11 specimens of cultivated Orchids.

General.

Rev. D. Lillie, 56 Lichens and 12 Mosses, mostly tropical.

(2) *By Purchase.*

British Isles.

E. M. Holmes, 37 rare British marine Algæ; A. Chatwin, 20 marine Algæ of Jersey; Rev. W. Johnson, 40 North of England Lichens; Miss A. Lorrain Smith, 22 microscope slides and 54 dried specimens of new or rare Microfungi.

Europe.

A. Kneucker, 90 specimens Gramineæ and Cyperaceæ; A. Hayek, 200 specimens Flora Stiriaca; O. Weigel, 500 specimens Flora Italica and 40 micro-sections of woods; Dulau and Co., Herb. Normale Dorfler, Cent. LI. and LII.; H. Sudre, 50 specimens Batotheca Europæa; Toepffer, 50 specimens Salicetum exsiccatum; Kabát and Bubák, 50 Fungi Imperfecti; A. Elenkin, 50 Russian Lichens; V. F. Brotherus, 100 Mosses of Finland; A. Luisier, 25 Lusitanian Mosses; V. Schiffner, 150 European Hepatics, with descriptive pamphlet; O. Jaap, 50 Fungi selecti; Sydow, 100 German Fungi; L. Lhomme, 404 Algues marines du Finistère, prepared by P. L. and H. M. Crouan; L. Lhomme, 147 collotype photographs—Cladoniarum Icones herbariorum Flœrke, Wallroth, Nægeli et Flotow, prepared by F. Arnold; Fleischer and Warnstorf, 100 Mosses of South Europe.

Africa.

R. Dummer, 52 specimens from South Africa; Scheffler, 147 specimens from Uganda; Zenker, 155 specimens from Cameroons; A. Pegler, 150 specimens from Kentani district; Dinter, 247 specimens from S.W. Africa.

Asia.

R Schlechter, 175 Phanerogams and 76 Cryptogams from New Guinea; A. D. Elmer, 275 Phanerogams and 125 Cryptogams from Philippine Islands; E. Levier, 480 Cryptogams collected in the Schen-si Province of China by J. Giraldi.

Australasia.

J. E. Tilden, 85 Phanerogams and 84 Cryptogams from New Zealand.

America.

W. Broadway, 19 specimens of Orchids from Grenada and 205 specimens from Tobago; Reineck, 415 Phanerogams and 21 Cryptogams mostly from America; Purpus, 519 specimens from Mexico; Marcus E. Jones, 1,245 Phanerogams and 40 Cryptogams from North Mexico, Eastern California and Montana; Hassler, 1,073 specimens from Paraguay; Fiebrig, 1,088 specimens from Bolivia; Baron von Türckheim, 195 Phanerogams and 53 Vascular Cryptogams from Santo Domingo;

W. Harris, 22 specimens of Cyperaceæ and Gramineæ from Jamaica; Collins, Holden and Setchell, 100 North American Algæ; G. W. Wilson and F. J. Seaver, 50 Ascomycetes and Lower Fungi; C. G. Pringle, 100 Mexican Mosses; E. Bartholomew, 200 Fungi Columbiani; A. Brinkman, 125 Mosses and 52 Hepatics of British Columbia; G. K. Merrill, 75 Lichens, mostly North American.

General.

V. Schroeder, 104 tropical Ferns determined by E. Rosenstock; H. Rehm, 60 Ascomycetes; Sydow, 50 Uredineæ and 25 Ustilagineæ; A. Zahlbruckner, 20 Lichenes rariores.

(3) *By Exchange of Duplicates.*

Director, Botanic Gardens, Singapore, 1,452 specimens of Malayan plants; Dr. De Wildemann, 30 specimens from the Congo; Director, National Herbarium, Sydney, 50 specimens and 5 fruits from Western Australia and 15 specimens from N.S. Wales; the Government Botanist, Victoria, Australia, 32 specimens from Western Australia; Director, Botanic Gardens Zürich, 158 Phanerogams and 3 Vascular Cryptogams from South Africa collected by R. Schlechter; Director, Royal Botanic Gardens, Calcutta, 54 specimens of Sikkim plants; Dr. R. Schlechter, 61 specimens of Orchids from Sumatra; the Imperial Botanic Gardens, St. Petersburg, 930 Phanerogams and 36 Cryptogams from Mandschuria and Korea, collected by Komarov.

VI.—*Students and Visitors.*

The number of visits to the Department for consultation and research during the year was 3,009, as compared with 2,712 in 1909, 2,315 in 1908, 2,245 in 1907, and 2,065 in 1906. Numerous specimens and small collections have been named for visitors and correspondents; in this, the Staff have received valuable help from Miss A. Lorrain Smith (Fungi and Lichens), and Mrs. Gepp (Algæ).

VII.—*Demonstrations.*

A demonstration on the Collections was given to Members of the Ealing Scientific and Microscopical Society on April 9th by Dr. Rendle.

A. B. Rendle.

RETURN.

BRITISH MUSEUM.

1911.

Ordered, by The House of Commons, *to be Printed*, 18 *April* 1911.

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102

BRITISH MUSEUM.

RETURN to an Order of the Honourable The House of Commons, dated 22 February 1912;—*for*,

COPY "of Account of the INCOME and EXPENDITURE of the BRITISH MUSEUM (SPECIAL TRUST FUNDS) for the Year ending the 31st day of March 1912; and, RETURN of the Number of PERSONS admitted to visit the MUSEUM and the BRITISH MUSEUM (NATURAL HISTORY) in each Year from 1906 to 1911, both Years inclusive; together with a STATEMENT of the PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and an ACCOUNT of OBJECTS added to them in the Year 1911."

Treasury Chambers,
22 April 1912.

C. F. G. MASTERMAN.

(*Sir William Anson.*)

Ordered, by The House of Commons, *to be Printed*, 22 *April* 1912.

LONDON:
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE.
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1912.

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BRITISH MUSEUM
OFFICE
8 AUG 1912
NATURAL HISTORY

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BRITISH MUSEUM.

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I.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

		Cash.	Stock, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCES on the 1st April 1911 - - -		263 9 5	13,598 3 11
– DIVIDENDS received on 13,659*l.* 3*s.* 2*d.* Stock in 2½ per Cent. Consols, bequeathed by the Earl of Bridgewater, viz.:			
On the 5th April 1911 -	£. 84 19 9		
,, 5th July 1911 -	- 85 7 4		
,, 5th October 1911	- 85 7 4		
,, 5th January 1912	- 85 7 4		
		341 1 9	
– RENT OF A REAL ESTATE, Whitchurch, bequeathed by the Earl of Bridgewater (less repairs, &c.) - - - - - -		22 18 11	
– STOCK purchased as *per contra* - - - -		—	60 19 3
	£.	627 10 1	13,659 3 2

II.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

		Cash.	Stock, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCES on the 1st April 1911 - - -		182 14 4	2,879 10 7
– DIVIDENDS received on 2,879*l.* 10*s.* 7*d.* Stock in 2½ per Cent. Consols bequeathed by Lord Farnborough, viz.:			
On the 5th April 1911 -	£. 17 19 11		
,, 5th July 1911 -	- 17 19 11		
,, 5th October 1911	- 17 19 11		
,, 5th January 1912	- 17 19 11		
		71 19 8	
	£.	254 14 –	2,879 10 7

III.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

		Cash.	Stock, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCES on the 1st April 1911 - - - -		60 12 9	5,683 1 6
– DIVIDENDS received on 5,744*l.* – 8*d.* Stock in 2½ per Cent. Consols, bequeathed by Dr. George Swiney for Lectures on Geology, viz.:			
On the 5th April 1911 -	£. 35 10 4		
,, 5th July 1911 -	- 35 18 –		
,, 5th October 1911	- 35 18 –		
,, 5th January 1912	- 35 18 –		
		143 4 4	
– STOCK purchased as *per contra* - - - -		—	60 19 2
	£.	203 17 1	5,744 – 8

BRIDGEWATER FUND, from the 1st April 1911 to the 31st March 1912.

	Cash. £. s. d.	Stock, 2½ °/₀ Consols. £. s. d.
By One Year's Salary of the Egerton Librarian -	175 – –	
– Amount expended on purchase of Manuscripts -	394 1 –	
– Purchase of 60*l*. 19*s*. 3*d*. Stock Consols - -	50 – –	
– Balances on the 31st March 1912, carried to Account for 1912–1913 - -	8 9 1	13,659 3 2
£.	627 10 1	13,659 3 2

FARNBOROUGH FUND, from the 1st April 1911 to the 31st March 1912.

	Cash. £. s. d.	Stock, 2½ °/₀ Consols. £. s. d.
By Amount expended in purchase of Manuscripts -	200 – –	
– Balances on the 31st March 1912, carried to Account for 1912–1913 - - -	54 14 –	2,879 10 7
£.	254 14 –	2,879 10 7

SWINEY FUND, from the 1st April 1911 to the 31st March 1912.

	Cash. £. s. d.	Stock, 2½ °/₀ Consols. £. s. d.
By Amount paid to Dr. T. J. Jehu, for Lectures on Geology in 1911 - - - - - -	140 – –	
– Purchase of 60*l*. 19*s*. 2*d*. Stock Consols - -	50 – –	
– Balances on the 31st March 1912, carried to Account for 1912–1913 - - -	13 17 1	5,744 – 8
£.	203 17 1	5,744 – 8

IV.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of

				Cash.			Stock, 2½ °/₀ Consols.		
				£.	s.	d.	£.	s.	d.
To BALANCE on the 1st April 1911				—			565	3	9
– DIVIDENDS received on 565*l.* 3*s.* 9*d.* Stock in 2½ per Cent. Consols, bequeathed by Dr. Birch in 1766, for the three Under Librarians of the British Museum, viz.:									
On the 5th April 1911	£.	3	10 8						
„ 5th July 1911		3	10 8						
„ 5th October 1911		3	10 8						
„ 5th January 1912		3	10 8						
				14	2	8			
			£.	14	2	8	565	3	9

V.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest and Extension of the Library and Reading Room of the British

	Cash.			Local Loans Stock.		
	£.	s.	d.	£.	s.	d.
To AMOUNT of Local Loans Stock on 1st April 1911	—			60,230	1	5
– DIVIDENDS received during the year	1,787	8	2			
– AMOUNT of Local Loans Stock purchased with the Dividends	—			1,939	7	6
– NET PROCEEDS of sale of 22,260*l.* 1*s.* 1*d.* Local Loans Stock as *per contra*	20,000	11	6			
£.	21,787	19	8	62,169	8	11

VI.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest 1st April 1911 to

	Cash.			Metropolitan 3½ °/₀ Stock.		
	£.	s.	d.	£.	s.	d.
To AMOUNT of Metropolitan 3½ per cent. Stock on 1st April 1911	—			8,667	1	4
– DIVIDENDS received during the year	307	6	5			
– AMOUNT of Metropolitan 3½ per cent. Stock purchased with the Dividends	—			306	3	5
£.	307	6	5	8,973	4	9

VII.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the 1st April 1911 to

	Cash.		
	£.	s.	d.
To DONATION (contributed anonymously)	500	–	–

the BIRCH FUND, from the 1st April 1911 to the 31st March 1912.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By Legacy paid to the three Under Librarians of the British Museum, whose offices existed in 1766, viz., the Keepers of the Departments of Printed Books, Manuscripts, and Natural History - - - - - - - - - -	14 2 8	
- Balance on the 31st March 1912, carried to Account for 1912-1913 - - -	—	565 3 9
£.	14 2 8	565 3 9

of the late MR. VINCENT STUCKEY LEAN (for the Improvement Museum) from the 1st April 1911 to the 31st March 1912.

	Cash.	Local Loans Stock.
	£. s. d.	£. s. d.
By Amount expended in the purchase of 1,939*l.* 7*s.* 6*d.* Local Loans Stock, Commission, &c. - - - - - - -	1,787 8 2	
- Cost of Power of Attorney - - - -	- 11 6	
- Amount transferred to H.M. Office of Works for expenditure on British Museum Extension -	20,000 - -	
- Stock sold as *per contra* - - - - -	—	22,260 1 1
- Balance of Stock on the 31st March 1912, carried to Account for 1912-1913 - - -	—	39,909 7 10
£.	21,787 19 8	62,169 8 11

of the late MR. CHARLES DRURY EDWARD FORTNUM from the the 31st March 1912.

	Cash.	Metropolitan 3½ °/₀ Stock.
	£. s. d.	£. s. d.
By Amount expended in the purchase of 306*l.* 3*s.* 5*d.* Metropolitan 3½ per cent. Stock, Commission, &c. - - - - -	307 6 5	
- Balance of Stock on the 31st March 1912, carried to Account for 1912-1913 - - -	—	8,973 4 9
£.	307 6 5	8,973 4 9

CARCHEMISH EXCAVATIONS FUND from the the 31st March 1912.

	Cash.
	£. s. d.
By Balance on the 31st March 1912, carried to Account for 1912-1913 -	500 - -

Frederic G. Kenyon,
Director and Principal Librarian.

VIII.—NUMBER of Persons Admitted to Visit the British Museum and the British Museum (Natural History).

A.—Persons Admitted to View the General Collections in the British Museum in each Year from 1906 to 1911, both Years inclusive.

	1906.		1907.		1908.		1909.		1910.		1911.	
	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week day.	Sunday.
January	54,267	3,146	48,297	3,143	44,498	1,959	49,213	4,154	48,368	4,122	55,442	2,663
February	44,034	3,432	43,522	3,775	43,488	3,788	36,296	3,400	46,081	3,479	44,315	3,424
March	44,010	4,871	45,298	6,807	42,739	7,014	43,517	5,855	59,783	5,325	58,111	6,633
April	61,298	6,664	54,485	6,020	70,302	7,460	58,175	4,779	59,623	6,095	64,215	7,993
May	52,000	4,918	50,036	5,009	46,840	6,881	43,049	6,196	48,271	6,309	47,400	5,273
June	55,551	4,569	43,238	7,071	50,615	5,256	54,703	6,908	55,362	5,856	52,277	6,847
July	56,513	6,404	48,799	6,152	66,035	7,992	66,484	6,637	68,956	11,481	61,311	6,156
August	71,925	5,613	72,023	5,184	90,251	12,313	76,856	7,389	81,401	6,813	70,068	5,142
September	50,615	6,769	43,485	7,050	75,929	7,658	66,097	6,347	52,249	7,466	54,726	4,793
October	55,847	5,008	48,878	5,669	55,854	6,013	53,989	7,028	52,543	6,559	55,374	7,113
November	46,621	3,110	44,577	3,890	41,041	5,615	47,962	3,389	48,228	3,593	52,588	3,982
December	41,531	3,234	40,141	3,761	41,497	2,375	47,802	2,611	49,239	2,635	43,959	3,766
Total Number of Persons admitted to view the General Collections.	634,212	57,738	582,779	63,521	669,089	74,324	644,143	64,693	670,104	69,733	659,786	63,785
	691,950		646,300		743,413		708,836		739,837		723,571	

Number of Visits of Students to particular Departments.

——	1906.	1907.	1908.	1909.	1910.	1911.
To the Reading Room - - - - -	212,997	137,682	231,544	217,975	219,274	223,404
„ Newspaper Room - - - - -	19,723	20,098	19,019	21,122	19,200	19,212
„ Map Room - - - - - -	281	281	296	371	443	584
„ Department of Manuscripts - - -	11,414	11,854	12,370	11,683	11,256	11,731
„ Department of Oriental Printed Books and Manuscripts.	3,313	3,286	2,270	2,678	2,218	2,617
„ Print Room - - - - - -	8,396	8,590	8,990	9,343	9,343	9,649
„ Egyptian and Assyrian Department - -	2,668	2,550	3,100	3,260	3,020	3,110
„ Greek and Roman Department - -	600	428	457	563	418	609
„ Galleries of Sculpture - - - -	1,758	1,206	1,614	1,077	1,843	2,301
„ British and Mediæval Department - -	2,995	3,254	3,267	3,591	3,665	3,260
„ Coin and Medal Room - - - -	4,365	4,191	4,293	4,377	4,228	4,050
Total - - -	268,510	193,420	287,220	276,040	274,908	280,527

The British Museum, Bloomsbury (including the Departments of Printed Books and Maps, Manuscripts, Oriental Printed Books and Manuscripts, Prints and Drawings, Egyptian and Assyrian Antiquities, Greek and Roman Antiquities, British and Mediæval Antiquities and Ethnography, and Coins and Medals), is open to the public free daily (except on Good Friday and Christmas Day and days of Public Fast or Thanksgiving), as follows:—

On WEEKDAYS from 10 a.m. to 6 p.m.

After 4 p.m. in January, February, November, December, and after 5 p.m. in March, September, October, only certain of the galleries remain open, viz.:—

On MONDAYS, WEDNESDAYS, and FRIDAYS.	Exhibitions of Manuscripts, Printed Books, Prints and Drawings, Porcelain, Glass and Majolica; Prehistoric, British, Anglo-Saxon, Mediæval and Ethnographical Collections.
ON TUESDAYS, THURSDAYS, and SATURDAYS.	Egyptian, Assyrian, Greek and Roman Galleries; the Gold Ornament Room, the American Room and the Waddesdon Room.

On SUNDAY AFTERNOONS:—

From 2 to 4	p.m. in January, February, November, December.
„ 2 „ 5	„ „ October.
„ 2 „ 5.30	„ „ March, September.
„ 2 „ 6	„ „ April, May, June, July, August.

Persons applying for the purposes of research and reference are admitted to the Reading Room under certain regulations every weekday, except the days specified below, from 9 a.m. until 7 p.m. The Newspaper Room is open, under similar regulations, from 10 a.m. until 5 p.m.

The Reading Room, Newspaper Room, and Students' Rooms in the Library and Department of Manuscripts are closed on Sundays, Good Friday, Christmas Day, and the first four weekdays in March and September.

Other Students' Rooms are closed on Sundays, Good Friday, and Christmas Day, and occasionally for cleaning.

Students are admitted generally to the several Departments on weekdays, from 10 till 4 or 5 o'clock; and to the Sculpture Galleries from 9 o'clock till the hour of closing.

British Museum,
10 April, 1912.

Frederic G. Kenyon,
Director and Principal Librarian.

B.—Persons admitted to view the Collections in the British Museum (Natural History), Cromwell Road, in each Year from 1904 to 1911, inclusive.

	1904.		1905.		1906.		1907.		1908.		1909.		1910.		1911.	
	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.
January	43,394	4,758	39,655	3,933	35,413	3,622	30,598	2,979	22,626	2,459	33,756	4,269	34,759	3,561	34,294	2,836
February	26,900	5,481	23,614	4,445	25,960	4,227	26,846	4,250	24,253	5,117	25,852	4,163	29,426	4,063	26,541	4,537
March	28,790	6,138	33,156	5,406	27,682	5,454	33,865	7,539	29,361	6,990	29,153	5,053	49,982	6,044	32,140	5,514
April	56,671	6,418	60,418	7,071	44,218	6,929	58,220	7,394	61,990	7,157	56,355	5,223	37,069	5,567	40,147	5,956
May	36,952	6,466	43,423	8,290	32,020	5,942	47,095	6,147	33,866	6,435	36,630	5,969	31,634	5,371	28,669	4,880
June	32,022	4,877	66,124	7,455	42,840	4,380	37,105	7,144	46,159	4,941	42,446	8,117	35,308	4,133	35,803	6,068
July	28,540	4,499	36,663	6,948	32,969	6,279	32,093	5,741	42,531	5,788	46,808	5,275	42,507	7,292	31,080	4,514
August	43,554	5,178	57,812	6,206	49,279	5,811	49,158	5,954	61,603	9,277	58,812	6,244	52,668	5,629	39,177	3,52[illegible]
September	30,695	5,796	35,916	6,370	29,810	6,683	31,014	6,166	45,399	6,193	40,239	5,642	36,376	5,225	26,981	4,594
October	23,689	5,929	33,263	6,793	37,739	5,354	33,618	5,722	32,124	5,235	39,650	6,061	33,737	5,558	30,652	5,871
November	24,941	3,303	32,477	3,709	28,799	3,276	25,714	3,736	24,741	4,107	32,856	2,784	36,549	2,855	28,150	3,458
December	33,500	2,156	33,758	3,458	24,677	3,194	25,744	3,595	26,404	2,287	31,094	2,665	37,789	2,460	27,957	2,937
Total Number of Persons admitted to view the Natural History Collections (including students)	409,648	60,909	496,229	70,084	411,406	61,151	431,070	66,367	451,057	65,986	473,651	61,465	457,804	57,758	380,991	54,693
	470,557		566,313		472,557		497,437		517,043		535,116		515,562		435,684	

Number of Visits to Particular Departments for the purpose of Study.

	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.
Zoology	11,824	11,811	10,813	11,043	10,220	11,461	12,443	12,175
Geology	4,854	4,968	4,171	5,544	5,803	5,057	4,996	6,038
Mineralogy	909	994	867	855	987	838	850	682*
Botany	2,358	1,939	2,065	2,245	2,315	2,712	3,009	3,084
Total	19,945	19,712	17,916	19,687	19,325	20,068	21,298	21,979

* Study series directly accessible to the public, and so labelled as to render reference to the staff almost unnecessary, have been arranged in this Department.

The Exhibition Galleries of the British Museum (Natural History), Cromwell Road, South Kensington, including the Departments of Zoology, Geology and Palæontology, Mineralogy, and Botany, are open to the public, free, daily, except Good Friday and Christmas Day, and days of Public Fast or Thanksgiving.

The hours of Admission are as under:—

On WEEKDAYS, throughout the year from 10 a.m., in

January	to	4	p.m.
February 1st to 14th	,,	4.30	,,
February 15th to end	,,	5	,,
March	,,	5.30	,,
April to August	,,	6	,,
September	,,	5.30	,,
October	,,	5	,,
November and December	,,	4	,,

also, on MONDAYS and SATURDAYS only, from the beginning of May to the middle of July, to 8 p.m., and from the middle of July to the end of August, to 7 p.m.

On SUNDAYS, in

January	from	2	to	4	p.m.
February 1st to 14th	,,	2	,,	4.30	,,
February 15th to end	,,	2	,,	5	,,
March	,,	2	,,	5.30	,,
April	,,	2	,,	6	,,
May to August	,,	2.30	,,	7	,,
September	,,	2	,,	5.30	,,
October	,,	2	,,	5	,,
November and December	,,	2	,,	4	,,

Persons are admitted to study in these Departments every weekday from 10 till 4 o'clock.

British Museum (Natural History),
24 February, 1912.

L. Fletcher,
Director of the Natural History Departments.

IX.—General Progress at the Museum, Bloomsbury.

The total number of visitors to the Museum in 1911 was 723,571, a decrease of 16,266 in comparison with 1910. The decrease is more than accounted for by the excessive heat of July and August, which discouraged visitors to the extent of nearly 26,000, in comparison with the previous year. The total for weekdays was 659,786 (a falling off of about 10,000), and for Sundays 63,785 (a falling off of about 6,000).

The number of visits by readers to the Reading Room was 223,404, an increase of over 4,000 on the figures for 1910, but still below the totals for 1904 and 1908. The daily average was 745, and the total number of volumes supplied during the year was just under a million and a half, exclusive of the twenty thousand volumes to which readers have free access in the Reading Room itself. In the Newspaper Room the number of readers was 19,212, almost identical with that of the preceding year, and the daily average of volumes of newspapers consulted was 223 (between 3 and 4 for each reader). In addition, 2,555 volumes of country newspapers were brought from the Repository at Hendon for the use of students.

The visits of students to other Departments of the Museum amounted to 37,911, an increase of nearly 1,500 on the previous year, and the highest total yet recorded. There were increases in every Department except those of British and Mediæval Antiquities and Coins and Medals. In particular, there was again a marked increase in the number of students engaged in copying in the Sculpture Galleries.

Progress has been made in the British Museum Extension Building, which should be handed over by the contractor in the course of 1912. Plans for the internal furniture and fittings have been prepared, and invitations to tender have been or shortly will be issued.

Only a small section of the work of reconstructing the roof with fire-resisting partitions was completed during 1911. The usual work of renovation and repair, within and without the building, was carried out; but it was again found necessary to postpone the re-decoration of the Mausoleum Room.

The chief special exhibition held during the year was that in connection with the celebration of the Tercentenary of the Authorized Version of the English Bible. To illustrate the history of the English Bible up to the year 1611 a large number of manuscripts, printed editions, and documents were put on view in the Manuscript Saloon and the King's Library, and a special illustrated guide-book was prepared. The exhibition proved exceptionally attractive, and a very large number of copies of the guide-book were sold.

The Chinese and Japanese paintings set out in the Prints Exhibition Gallery in 1910 remained on view throughout 1911; and a selection of the drawings acquired by the Salting Bequest, together with a number of drawings by D. G. Rossetti (pre-

sented by Mrs. Gillum) and by J. M. Swan (presented by the Swan Memorial Fund) were exhibited on screens in the King's Library.

A new departure was made during the year by the engagement of an Official Guide to conduct parties round the Museum and to point out and explain the most interesting objects. The experiment was tried provisionally for the six months from May to October, and, having proved very successful, was placed on a permanent footing in December. The Guide makes two regular tours each day, taking different parts of the Museum in accordance with a printed time-table; and he is also at liberty to take round special parties by arrangement at other hours. No charge is made to the public in either case. It is impossible to give exact figures of the number of persons accompanying the Guide, since the parties usually grow during the progress of the lecture; but it was estimated that not less than 9,000 persons availed themselves of his services during the six months of the provisional institution of the service. There is ample evidence to show that the public greatly appreciate the assistance thus given to them.

During the year excavations were conducted on behalf of the Museum at Jerablus, on the Euphrates, the site of the ancient Hittite town of Carchemish. Sculptures and inscriptions of considerable interest were found, together with a large amount of pottery, which will be of great assistance in fixing the dates of other Hittite sites. The excavations, which promise to be of considerable importance for ancient history, will be continued in 1912.

The number of separate objects incorporated in the collections of the several Departments during the year 1911 is as follows :—

Department of Printed Books :	
Books and Pamphlets	28,022
Serials and Parts of Volumes	70,309
Maps and Atlases	2,005
Music	11,272
Newspapers (single numbers)	247,116
Miscellaneous	4,214
Manuscripts and Seals	1,512
Oriental Printed Books and Manuscripts	2,388
Prints and Drawings	2,890
Egyptian and Assyrian Antiquities	1,740
Greek and Roman Antiquities	155
British and Mediæval Antiquities	3,213
Coins and Medals	4,458
Total	379,294

The principal additions to the collections are described below in the detailed reports of the several Departments; but some of the more important may be selected for special mention here.

His Majesty the King has been graciously pleased to deposit in the British Museum the collection of Music hitherto preserved in Buckingham Palace. It consists of about 1,000 manuscripts and 3,000 printed books. The main feature of the collection is the set of eighty-one volumes in the autograph of Handel, with forty-one more in the hands of his amanuenses. These were presented to King George III. by John Christopher Smith, Handel's principal amanuensis, to whom they had been bequeathed by the author, and they form the basis of all scientific study of Handel's music. Another volume contains fourteen anthems and forty-six secular compositions in the autograph of the greatest native English musician, Henry Purcell. The collection (which remains the property of the Crown) is of the greatest interest to musicians, to whom it will now, by the King's wish, become accessible on the same terms as the other collections of the Museum. It is proposed to house it eventually in a special room in the King Edward Galleries, now in process of construction.

By the will of the late Mr. Alfred Huth, the Department of Printed Books received the most valuable gift that has come to it since the bequest of the Grenville Library in 1847. Mr. Huth directed that, in the event of his library being sold, the Trustees of the British Museum should be allowed to select, before the sale, fifty volumes at their free choice. This admirable form of bequest, which secured for the Museum the volumes which it most needed, while leaving the bulk of the great library intact, gave the Museum thirty-seven printed books of exceptional importance and rarity and thirteen fine illuminated manuscripts. The details of the volumes thus acquired are set out in the reports of the Keepers of the Departments concerned. In addition, at the sale of the first portion of the Huth Library, the Museum was able to acquire twenty-eight printed books which were much needed for the collection. In accordance with the terms of Mr. Huth's will, a special catalogue, fully illustrated, has been prepared of the fifty volumes constituting his bequest.

Besides the thirteen manuscripts received under the Huth Bequest (one of which, since its interest consists in its inserted woodcuts, has been transferred to the Department of Prints and Drawings), the Department of Manuscripts received a valuable collection of historical papers in the correspondence of the Earls of Liverpool, presented by the Hon. H. B. Portman. This is naturally of considerable political and historical importance for the reigns of George III. and George IV. The Department is also indebted to the generosity of private donors for some interesting literary MSS. Mr. Thomas Hardy has presented the autograph MSS. of his epic drama, "The Dynasts" (which finds a fitting home among so many records of the national history), and of one of the best of his novels, "Tess of the Durbervilles." Mrs. W. E. H. Lecky has presented the autograph MS. of her late husband's work, "The History of European Morals"; and a leaf of "The Pickwick Papers," in

the handwriting of Charles Dickens, has been presented by Mr. W. A. White, of New York.

The Department of Oriental Printed Books and Manuscripts has acquired two volumes of exceptional interest during the year. One is a Coptic MS. of the first half of the fourth century, containing the books of Deuteronomy, Jonah, and the Acts of the Apostles, in the Sahidic dialect, which is one of the earliest Biblical MSS. of any considerable size in existence. The other is an illuminated copy of the "Divan" of the Persian poet Hafiz, containing seven beautiful full-page miniatures of the best Indo-Persian school, and one in the classical Persian style. Another interesting accession (due to the gift of Mr. G. M. H. Playfair) consists of two of the few surviving parts of the great manuscript Chinese Encyclopædia, nearly the whole of which was destroyed by the Chinese insurgents in Pekin during the siege of the legations in 1900.

The principal purchases of the Department of Prints and Drawings were made at the sale of the late Mr. Alfred Huth's prints in June, at which a considerable number of rare German woodcuts and engravings were acquired. A very valuable volume of woodcuts by Lucas Cranach, from the same sale, was presented by Mr. Campbell Dodgson. The Department also received many other accessions from private liberality, notably a collection of studies of birds and animals by Mrs. Blackburn, presented by the executors of the late Prof. Hugh Blackburn in accordance with his wishes; seventeen drawings by the late J. M. Swan, R.A., presented by the John M. Swan Memorial Fund through Mr. J. S. J. Drucker; four portfolios of etchings by Col. R. C. Goff, presented (in continuation of previous gifts) by the artist; and a large number of engraved portraits, presented by Mr. E. E. Leggatt. Particulars of many other donations will be found in the Keeper's report below.

The accessions of the Department of Egyptian and Assyrian Antiquities include a large collection of scarabs of the Hyksos period; a mastabah door bearing the very rare cartouche of Psammetichus III.; a very fine seated statue of a scribe and architect named Sen-Mut, about B.C. 1550; and thirty three Babylonian cylinder-seals in lapis lazuli, chalcedony, sard, and similar stones. Some interesting Coptic and Himyaritic antiquities have also been acquired.

The Department of Greek and Roman Antiquities has been unusually fortunate, having obtained at least three accessions which may be counted as of first-rate importance. One of these is a very fine sepulchral relief of the fourth century B.C., of exceptional size, which (with the somewhat smaller example acquired in 1910) greatly strengthens the collections of the Museum in this class of sculpture. Another is a bronze head, probably of the Emperor Augustus, of more than life size, with eyes inlaid with glass and alabaster, which was discovered on the site of the ancient Meroë, in Nubia, during the excavations

conducted by Prof. Garstang on behalf of the Liverpool University Sudan Excavations Committee. The Committee generously allowed the head to be acquired by the Museum at a sum considerably below its probable market value, and this sum was provided by the liberality of the National Art-Collections Fund, which has proved itself this year, as often previously, a most valuable aud enlightened benefactor of the Museum. The third important acquisition of the Department is a bronze chariot of the sixth century B.C., found near Orvieto and now restored on a modern core of wood; an object of a very rare class, in a good state of preservation.

The Department of British and Mediæval Antiquities has, as so often before, owed a very large number of its accessions, including some of the most important, to the generosity of private benefactors. A beautiful set of church plate from the Hospital de la Vera Cruz, near Burgos, in Spain, was presented by Mr. J. Pierpont Morgan. A very important collection of Late-Keltic antiquities, of about the first century B.C., found at Welwyn, Herts, and acquired by the late Mr. G. E. Dering, was presented by his daughter, Mrs. A. J. Neall. In the category of Ethnography, the principal accession consisted of the collections of the London Missionary Society, which have been for many years on deposit in the Museum, and have now been acquired (partly through the Christy Trustees) at a cost very much below their market value. Another valuable ethnographic collection, from the neighbourhood of Lake Chad, was presented by Miss Macleod.

The Department of Coins and Medals similarly owes its most important single accession of the year, as well as many smaller ones, to private generosity. This is the Bleazby Collection of the Mohammedan Coins of India, originally formed in India by Mr. George Bleazby, but purchased and presented to the Museum by Mr. Henry Van den Bergh (a previous large benefactor) in commemoration of the Imperial Durbar at Delhi. The collection consists of over 2,600 coins (173 in gold) and forms an unequalled numismatic record of Mohammedan rule in India from 1166 to 1857. The association of the Mohammedan emperors with Delhi gives special appropriateness to a gift which commemorates the occasion on which Delhi once more became the capital of India. Another source from which the Department derived some valuable acquisitions was that of Treasure Trove. Coins of Henry III. from a hoard at Palmer's Green; of Edward I. and II. from Kirkcudbrightshire; and of Edward III. from East Raynham were received in this way during the year, and proved of great value for determining the true numismatic history of these periods.

In concluding this summary of the principal acquisitions of the year, it is worth while to point out what a large proportion of them is due to the munificence of private benefactors. It would be impossible for the Museum to maintain the position

which general opinion, both at home and abroad, assigns to it, if the purchase grant voted by Parliament were not largely supplemented by the enlightened liberality of many benefactors, great and small. The number of desirable objects which come into the market annually is so large, and the money value of the more important specimens has risen so greatly, that no Parliamentary grant could be expected to suffice to meet all demands; and it is therefore all the more satisfactory to recognise that private individuals, rich and poor, are more and more recognising the claims of this form of national service.

Gifts of Museum publications, including reproductions of prints by Old Masters, and sets of electrotypes of British Historical Medals, have been made to many Free Libraries, Museums, and Art Schools throughout the United Kingdom, and to certain libraries and institutions in the overseas Dominions and in foreign countries; and similar gifts have been received in return.

The following are the publications issued by the Departments at Bloomsbury during the year:—

Hieroglyphic Texts from Egyptian Stelæ, &c. in the British Museum. Part I. 56 plates. Folio, 7*s.* 6*d.*

Cuneiform Texts from Babylonian Tablets, &c. in the British Museum. Parts XXX. and XXXI. 50 plates each. Folio, 7*s.* 6*d.* each part.

Catalogue of the Jewellery, Greek, Etruscan and Roman, in the British Museum. By F. H. Marshall. With 73 plates. 4to., 1*l.* 15*s.*

Medallic Illustrations of the History of Great Britain and Ireland. Parts XIV.–XVII. 10 plates each. Folio, 6*s.* each part.

Medallic Illustrations of the History of Great Britain and Ireland. Part XVIII. 13 plates. Folio, 8*s.*

Medallic Illustrations of the History of Great Britain and Ireland. Part XIX. Indexes, General Title, and Preface. Folio, 10*s.*

Catalogue of the Coins of the Vandals, Ostrogoths and Lombards, and of the Empires of Thessalonica, Nicæa and Trebizond in the British Museum. By Warwick Wroth. With 43 autotype plates. 8vo., 1*l.* 2*s.* 6*d.*

Subject Index of the Modern Works added to the Library of the British Museum in the years 1906–1910. 8vo., 2*l.*

Catalogue of Greek Papyri in the British Museum; with Texts. Vol. IV., The Aphrodito Papyri. 4to., 4*l.*

An Alphabetical Index to the Chinese Encyclopædia in the British Museum. Compiled by Lionel Giles. 4to., 15*s.*

Catalogue of Early German and Flemish Woodcuts. By C. Dodgson. Vol. II. 8vo., 1*l.* 1*s.*

Reproductions of Prints. Third Series. Part V. (Specimens of Etching by Dutch Masters, 1615–1650.) 25 plates. 2*l.*

Guide to the Antiquities of the Stone Age in the Department of British and Mediæval Antiquities. With 10 plates and 161 illustrations. 2nd edition. 8vo., 1*s.*

Guide to the Department of Coins and Medals in the British Museum. 2nd edition. With 45 illustrations. 8vo., 6*d.*

Guide to the Manuscripts and Printed Books exhibited in celebration of the Tercentenary of the Authorized Version of the Bible. With 8 plates. 4to., 6*d.*

British Museum,
10 April, 1912.

Frederic G. Kenyon,
Director and Principal Librarian.

X.—PROGRESS made in the ARRANGEMENT AND DESCRIPTION OF THE COLLECTIONS, AND ACCOUNT OF OBJECTS ADDED TO THEM in the Year 1911 (Bloomsbury).

DEPARTMENT OF PRINTED BOOKS.

I. *Arrangement.*—The works added to the collection during the past year have, as far as possible, been placed on the shelves of the Library, according to the system of classification adopted in the Museum.

The press-marks, indicating their respective localities, have been marked on the inside and affixed to the back of each volume.

The total number of these press-marks amounts to 77,510; in addition to which 153,598 press-marks have been altered, on books and in the catalogues, in consequence of changes and re-arrangements carried out in the Library; 37,051 labels have been affixed to books and volumes of newspapers, and 116,187 obliterated labels have been renewed.

The number of stamps impressed upon articles received is 531,310.

4,694 presses of books and newspapers have been dusted in the course of the year.

II. *Catalogues.—Cataloguing.*—44,366 titles have been written for the General Catalogue and for the Catalogues of Maps and Music.

Printing.—36,392 titles and index-slips for the General Catalogue, 2,533 for the Map Catalogue, and 12,726 for the Music Catalogue have been prepared for printing during the year; and 36,200 titles and index-slips for the General Catalogue, 2,533 for the Map Catalogue, and 2,188 for the Music Catalogue, have been printed.

Reprinting. — 101 columns, including the headings Beaumarchais (12 columns), Cellini (6 columns), Disraeli (20 columns), Goncourt (6 columns), and Quevedo (13 columns), have been revised, rearranged, and reprinted during the year.

Incorporation.—General Catalogue.—35,543 title-slips and index-slips have been incorporated into each of the three copies of this Catalogue. This incorporation has rendered it necessary, in order to maintain as far as possible the alphabetical arrangement, to remove and re-insert 44,904 title-slips and index-slips in each copy and to add to each copy 670 new leaves.

The system of fortnightly incorporation of accessions to the Library has been carried out with perfect regularity during the year.

Map Catalogue.—2,491 titles have been written for this Catalogue, and 2,804 title-slips have been incorporated into each of three copies of it. This incorporation has rendered it necessary to remove and re-insert 7,310 title-slips in each copy and to add to each copy 258 new leaves.

Music Catalogue. — 9,367 titles have been written for the Music Catalogue, and 13,394 title-slips have been incorporated into each of two copies of it. This incorporation has rendered it necessary to remove and re-insert 23,312 title-slips in each copy and to add to each copy 568 new leaves.

Shelf Catalogue.—For this Catalogue, in which the title-slips, mounted on cards, are arranged in order of press-marks, 32,200 have been so mounted and 55,400 have been incorporated in their proper order.

Catalogue of Books printed during the XVth Century.—Part II. of this Catalogue, containing the descriptions of the books printed at Eltvil, Augsburg, Nuremberg, and twenty other German towns will shortly be issued.

Subject Index.—The "Subject Index of the Modern Works added to the Library of the British Museum in the years 1906–1910" was published by the Trustees in November, 1911.

III. *Binding.*—The number of volumes and sets of pamphlets sent to be bound in the course of the year was 15,226, including 3,308 volumes of newspapers. In consequence of the frequent adoption of the plan of binding two or more volumes in one, the number of volumes returned was 10,822. In addition to this, 465 volumes have been repaired in the binders' shops.

Besides this, the following binding work has been done in the Library itself: — 3,374 volumes have been repaired, 97 broadsides, &c. have been inserted in guard-books, and 5,640 volumes of reports, parts of periodicals, &c. have been bound in a light style of binding.

The following maps, charts, &c. have also been bound or mounted during the year:—7 atlases and 172 volumes of the 6-inch and 25-inch Ordnance Survey have been bound, and 8 Admiralty Charts have been mounted on linen; in addition, 243 general maps have been mounted on linen in 1,528 sheets, and 292 maps have been mounted on cards in 393 sheets.

32,858 numbers of Colonial Newspapers have been folded into 659 parcels, and 527 parcels have been tied up and labelled.

13 volumes of the Blue Copy, 18 volumes of the Red Copy, and 9 volumes of the Green Copy of the General Catalogue, have been broken up and re-bound in 61 new volumes. 264 columns have been re-laid, owing to the accumulation of titles under certain headings, as well as 124 columns of reprinted headings, in each of the three interleaved copies of the General Catalogue. 10 volumes of the Music Catalogue have been re-bound in 19 new volumes.

IV. *Reading Room Service.*—The number of volumes replaced in the General Library after use in the Reading Room was 766,000; in the King's Library, 24,165; in the Grenville Library, 2,011; in the Map Room, 7,335; in the presses in which books are kept from day to day for the use of readers, 662,691; and in the Oriental Department, 2,547; making a

total amount of 1,464,749 volumes supplied to readers during the year, exclusive of those to which the readers have personal access on the shelves of the Reading Room.

The number of readers during the year was 223,404, giving an average of 744·68 daily, the room having been open 300 days; with an average of nearly 7 volumes daily for each reader.

Newspaper Room.—The number of readers during the year was 19,212, giving a daily average of over 64, the room having been open on 300 days. The number of volumes replaced after use was 67,055, giving a daily average of 223 and of over 3 volumes for each reader, not reckoning volumes, chiefly Parliamentary Papers, taken from the shelves of the Newspaper Room by the readers themselves. In addition 2,555 country newspapers were brought up to the Library from the Repository at Hendon for the use of readers.

Map Room.—584 visitors were admitted to the Map Room for the purpose of special geographical research.

Photography.—There were 459 applications for leave to photograph from books in the Library, and 1,635 volumes were supplied to the applicants for this purpose.

V. *Accessions.—General Library.*—28,022 complete volumes and pamphlets have been added to the General Library in the course of the year. Of these, 7,295 were presented; 15,293 were received by Copyright; 459 by Colonial Copyright; 998 by International Exchange; and 3,977 acquired by purchase.

70,309 parts or volumes of magazines and other serial publications and of works in progress have been added to the General Library. Of these, 4,658 were presented; 45,893 received by Copyright; 456 by Colonial Copyright; 1,178 by International Exchange; and 18,124 acquired by purchase.

Maps.—43 atlases, 97 parts of atlases, and 1,865 maps in 7,108 sheets have been added to the collection during the year. Of these, 3 atlases, 24 parts of atlases, and 447 maps were presented; 14 atlases and 642 maps received by Copyright; 12 atlases and 28 maps by Colonial Copyright; and 14 atlases, 73 parts of atlases, and 748 maps acquired by purchase.

Music.—11,272 musical publications have been added to the collection during the year. Of these, 22 pieces were presented; 9,018 books and pieces, and 1,400 parts, received by Copyright; 669 pieces by Colonial Copyright; and 31 books and 132 parts acquired by purchase.

Newspapers.—The number of newspapers published in the United Kingdom, received under the provisions of the Copyright Act, during the year, was 3,470, comprising 247,116 single numbers. Of these newspapers, 1,241 were published in London and its suburbs; 1,693 in other parts of England and Wales and in the Channel Islands; 299 in Scotland; and 237 in Ireland. Two sets, comprising 444 single numbers, were

received by Colonial Copyright; 256 sets, comprising 38,776 single numbers of colonial and foreign newspapers, have been presented; and 82 sets, comprising 18 volumes and 14,510 single numbers of current colonial and foreign newspapers, have been purchased.

Miscellaneous.—4,214 articles not included in the foregoing paragraphs have been received in the Department. These consist of Parliamentary Papers, single sheets, and other miscellaneous items.

The total number of articles enumerated above, as having been received in the Department during the year, exclusive of newspapers, is 115,822.

Acquisitions of Special Interest.—During the course of the year 1911 the Library has been enriched by two acquisitions of the highest importance and value. These are:—

I. *The Royal Library of Music from Buckingham Palace.*—His Majesty the King has been graciously pleased to deposit on loan at the British Museum the Royal Musical Library, consisting of about 1,000 Manuscripts and 3,000 printed books and musical pieces, hitherto preserved in Buckingham Palace.

As soon as the King Edward Wing is completed, this magnificent collection will be housed in a room specially fitted for the purpose, and the contents will be available to readers on the same conditions as those which now apply to the more valuable works in the Departments of Manuscripts and Printed Books.

Among the many treasures contained in this collection are the following:—

Eighty-one volumes of Manuscript Music in the handwriting of Handel.

Of these, thirty-two volumes consist of Operas, twenty-one of Oratorios, twelve of miscellaneous sacred music, eleven of Cantatas and Sketches, and five of instrumental music.

These holograph volumes are supplemented by seventeen volumes of copies by John Christopher Smith, Handel's amanuensis, and twenty-four volumes, partly in the handwriting of Smith and partly in that of another copyist.

A manuscript volume written by John Baldwine, towards the close of the sixteenth century, containing compositions by English musicians of the sixteenth century including Henry VIII.

Two manuscript "Virginal Books," one by Benjamin Cosin, written in the earlier years of the seventeenth century; the other by William Forster, dated 1624.

A manuscript volume of "Aires and Phantasies," by Giovanni Coperario (*Anglice* John Cooper), which belonged to Charles I.

A Manuscript Volume containing forty-six odes, songs and other secular compositions and fourteen anthems, almost all of which are in the handwriting of Henry Purcell. The book forms Purcell's own record of his work in chronological order from about 1682, when he was appointed Organist and Composer to the Chapel Royal, to about 1690 when he definitely entered upon his final career as a writer for the stage.

II. *The Huth Bequest.*—The late Mr. Alfred Henry Huth in his Will directed his Executors, in case the sale of the Huth Library should be decided upon, to "deliver to the Trustees of the British Museum before such sale actually takes place such fifty volumes as the Trustees shall in their uncontrolled discretion select from the Huth Library, provided that such Trustees shall not select any duplicate or more perfect copy of any volume which may be already in the British Museum Library, except by way of exchange of such duplicate with the Huth Library, and every copy so exchanged is to count as one volume out of the said fifty."

This legacy, which accrued to the Trustees in the course of the year, is the most valuable gift which has been bestowed upon the Library since the bequest of the Grenville Library in 1847. Fifty manuscripts and printed books have been selected in accordance with the terms of Mr. Huth's Will. A full description of these, with illustrations and facsimiles, will be found in the "Catalogue of the fifty Manuscripts and Printed Books bequeathed to the British Museum by Alfred H. Huth," published by the Trustees of the British Museum, 1912.

The following is a list of the Printed Books selected:—

"Ars Memorandi per figuras Evangelistarum." A German block-book c. 1470 consisting of thirty leaves printed in brown ink on one side only, in such a manner that of each pair of printed pages one is occupied by text, the other by an illustration.

Boccaccio, Giovanni: "Decamerone." A German translation. Printed by Johann Zainer, Ulm, c. 1473.

Jacobus de Voragine: "La Légende dorée." Printed by Guillaume Le Roy for Barthélemy Buyer, Lyons, 1476.

"Le Viel Testament de la Bible." Printed by Guillaume Le Roy, Lyons, c. 1477.

"Dicts or Sayings of the Philosophers." Printed by William Caxton, Westminster, 1477. A tall and beautiful copy of the first dated book printed in England, exchanged for a very inferior copy formerly in the British Museum.

"Spiegel menschlicher Behaltnis." Printed by Anton Sorg, Augsburg, c. 1478. With 192 woodcuts.

"Geschiedenis van het heylighe Cruys." Printed by Jan Veldener, Kuilenburg, 1483. With 64 woodcuts.

"Le Livre des Eneydes compilé par Virgile." Printed by Guillaume Le Roy, Lyons, 1483. With 61 woodcuts.

The Romance of "Fierabras." Printed by Guillaume Le Roy, Lyons, c. 1485. With 48 woodcuts.

"Meditatione sopra la Passione del Nostro Signore." Printed by Hieronymus de Sanctis, Venice, 1487. With 11 woodcuts.

"Danse Macabre." Printed by Gui Marchant, Paris, c. 1494. In three parts: Part 1. "La Danse des Hommes." Part 2, "La Danse des Femmes." Part 3, "Les trois mors et les trois vifz." With numerous and beautiful woodcuts and large capitals.

"Danse Macabre." Printed by Matthias Huss, Lyons, 1499. With numerous woodcuts, for the most part copied from the Paris editions of Couteau and Ménart and of Gui Marchant.

"The Castell of Laboure." Translated from the French of Pierre Gringore by Alexander Barclay. Printed by Richard Pynson, London, c. 1505. With 29 woodcuts and ornamental capitals. The only perfect copy known.

"Flower of the Commandments." Translated from the French by Andrew Chertsey. Printed by Wynkyn de Worde, London, 1510. With woodcut illustrations and capitals.

"Hundred Merry Tales." Printed by John Rastell, London, c. 1526. The only known copy of this edition. A copy of another edition is in the University Library at Göttingen. The book is quoted in "Much Ado about Nothing," Act II., Scene I., where Beatrice says "that I had my good wit out of the Hundred Merry Tales."

"The Summoning of Everyman." Printed by John Skot, London, c. 1530. The only known copy of this edition.

"Interrogatories to Churchwardens, Anno 1558." Printed by Robert Caly, London, 6 April, 1558.

A volume of ballads, consisting of 74 sheets, a few of which contain more than one ballad. The earliest of these ballads is dated 1559; the great majority are printed between 1559 and 1572, a few belong to the period between 1572 and 1600, while one bears the date 1615. The volume forms one half of the collection of ballads acquired by George Daniel, the other half of which is in the Library at Britwell Court.

Broke, Arthur: "The Tragicall Historye of Romeus and Juliet, written first in Italian by Bandell and now in Englishe by Ar. Br." Printed by Richard Tottell, London, 1562.

Two other copies only are known, one in the Bodleian Library, the other, which is imperfect, in the Library of Trinity College, Cambridge.

Googe, Barnabe: "Eglogs, Epytaphes, and Sonettes." Printed by Thomas Colwell for Rudolph Newbery, London, 1563.

Two other copies only known, one in the Library of Trinity College, Cambridge, the other in the Library at Britwell Court.

Cervantes: "Primera parte de la Galatea." Printed by Juan Gracian for Blas de Robles, Alcalá, 1585. The first edition of the first work of Cervantes.

"Daphnis and Chloe, by Angell Daye." Printed by Robert Waldegrave, London, 1587. The only copy known.

Munday, Anthony: "A Banquet of Daintie Conceits. Written by A. M. Servaunt to the Queenes most excellent Majestie." Printed by John Charlwood for Edward White, London, 1588. The only copy known.

Colonna, Francesco: "Hypnerotomachia, The Strife of Love in a Dreame." Printed by John Charlwood for Simon Waterson, London, 1592.

An abridged translation of the Italian Romance written at Treviso by F. Colonna in 1467, with some of the Italian woodcuts of the Aldine edition imitated on a reduced scale.

Lodge, Thomas: "Rosalynde, Euphues golden Legacie found after his death in his Cell at Silexedra." Printed by A. Jeffes for Thomas Gubbin and John Busby, London, 1592. The only other known copy of this edition is in the Bodleian Library.

Fletcher, Giles: "Licia, or Poemes of Love, in honour of the admirable and singular vertues of his Lady." John Legate, Cambridge, c. 1593. The only other known copy is in the Bodleian Library.

"The Phœnix Nest. Built up with the most rare and refined workes of Noblemen, woorthy Knights, gallant Gentlemen, etc. Set foorth by R. S. of the Inner Temple Gentleman." J. Jackson, London, 1593. An anthology of poems by Nicholas Breton, Sir William Herbert, Thomas Lodge, Edward de Vere, Earl of Oxford, George Peele, Matthew Roydon, Thomas Watson and others.

"The Patterne of painefull Adventures containing the Historie of the strange accidents that befell unto Prince Apollonius, the Lady Lucina his wife and Tharsia his daughter gathered into English by Laurence Twine Gentleman." Valentine Sims for the Widow Newman, London, c. 1594.

Griffin, Bartholomew: "Fidessa, more chaste than kinde." Printed by the Widow Orwin for Matthew Lownes, London, 1596. Two other copies known, one in the Bodleian Library, the other in the Library at Britwell Court.

Smith, William: "Chloris, or the complaint of the passionate despised Shepheard." Edmund Bollifant, London, 1596. Only one other copy known, in the Bodleian Library.

Shakespeare : "The Tragedie of King Richard the second." Printed by Valentine Simmes for Andrew Wise, London, 1597. This is the first of the four quarto editions of Richard II., printed before the Folio of 1623. Only one other copy known, which is preserved in the Capell Collection at Trinity College, Cambridge.

Shakespeare: "The Tragedy of King Richard the third." Printed by Valentine Sims for Andrew Wise, London, 1597. This is the first of the six quarto editions published before 1623. Other copies are in the Bodleian Library, and the Library of the Duke of Devonshire. A third copy was among the Shakespeare Quartos of Earl Howe sold in 1907.

Shakespeare: "The Merry Wives of Windsor." Printed by Thomas Creed for Arthur Johnson, London, 1602.

Rich, Richard: "Newes from Virginia, The lost Flocke Triumphant." Printed by Edward Allde, sold by John Wright, London, 1610.

In November 1911 the first portion of the Huth Library was sold by auction by Messrs. Sotheby, Wilkinson and Hodge. The following printed books, twenty-eight in number, were purchased by the Trustees:—

Andreas, Joannes: "Arbor Consanguinitatis et Affinitatis." Printed by Johann Winterberg, Vienna, 1500.

Brunus, L.: "Cronica summaria Hispaniarum Regine (Isabella of Castille)." Richard Pynson, London, c. 1505. The only copy known.

"Almanacke for XV yeres." Nine printed leaves, preceded by a full-page woodcut. Wynkyn de Worde, London, 1522.

"Interlocucyon betwixt Man and Woman." Wynkyn de Worde, London, c. 1525. A translation from the French of "Le Debat de l'homme et de la femme," by Guillaume, Prior de Bucy. The only copy known.

A Breviary according to the revision of Cardinal Quignon. Antoine Goin, Antwerp, 1537.

Askew, Anne: "First Examination of Maistres Anne Askew. Lattre Examination, etc., 1546. Wanting the title-page. The only copy known. An edition of this book by John Bale was printed at Marburg in 1546. The present version was probably printed in England earlier than the Marburg edition, from which it differs in many details.

Brooke, T.: Certeyn Meditations and thinges to be had in remembrance by every Christian before he receive the Sacrament of the body and bloude of Christ." John Day and William Seres, London, 1548.

Bale, John: "The Image of both Churches." Richard Jugge, London, c. 1550.

Bullein, William: "A newe Boke of Phisicke, called the Government of Health." John Day, 1558.

Bradford, John: "The Complaynt of Veritie, made by John Bradford, etc., 1559." The only copy known.

Æneas Sylvius (Pope Pius II.): "The Goodly History of the most noble and beautiful Lady Lucres of Scene in Tuskan." John Kynge, London, 1560. The only copy known.

Breton, Nicholas: "A Floorish upon Fancie. As gallant a glose upon so trifling a text as ever was written." Richard Jhones, London, 1582.

Breton, Nicholas: "Melancholike Humours, in verses of divers Natures." Richard Bradock, London, 1600.

Breton, Nicholas: "I would and I would not." Printed by Thomas Creede for Thomas Bushell, London, 1614.

Baldwin, William: "A Marvellous History, intituled, Beware the Cat." Edward Allde, London, 1584. Wanting the title-page. The only copy known.

Bucke, J.: "Instructions for the use of the beades." Louvain, 1589.

"The Honour of Chivalrie. Set downe in the most famous historie of the magnanimous Prince Don Bellianis. Englished out of Italian by L. A." Thomas Creede, London, 1598.

Bas, William: "Sword and Buckler, or Serving Mans Defence." 1602. Wanting the title-page. The only other copy known is in the Bodleian Library.

Allen Robert: "The Oderifferous Garden of Charitie." Imprinted at London, 1603.

"The new Prophetical King of Barbary. Or, the last newes from thence in a Letter written of late from a Merchant there, etc." Arthur Jonson, London, 1613.

Bellarmine, Cardinal: "A Shorte Catechisme of Card. Bellarmine, illustrated with the Images." (Translated by G. Mayr.) Augsburg, 1614.

"The Historie of Sir Bevis of South-Hampton." Printed by Edward Raban for David Melvill, Aberdeen, 1630. The only copy known.

Bancroft, Thomas: "The Glutton's Feaver." Printed by John Norton for William Cooke, London, 1633.

Bancroft, Thomas: "The Heroical Lover, or Anthea and Fidelta." Printed by W. G., sold by Isaac Pridmore, London, 1658.

Brathwait, Richard: "Anniversaries upon his Panarete continued: with her Contemplations, penned in the languishing time of her Sicknesse." Printed by Felix Kingston, sold by Robert Bostock, London, 1635.

Ballard, George: The History of Susanna." Printed by Thomas Harper for William Hope, London, 1638.

Barford, John: "Paraphrastical Meditations upon Isaiah 55 and Psalm 51." Thomas Euster, London, 1649.

Bassani, Giovanni Battista: "Resi armonici in motetti a voce sola con violini." Henrico Aertssens, Antwerp, 1691.

Two of these books are imperfect, wanting their title-pages. All the others are perfect, in excellent condition and, for the most part, in fine modern bindings. One is bound by Roger Payne, thirteen by F. Bedford and the remainder by Lewis, Riviere and other well-known binders.

In addition to the books acquired by Mr. Huth's b quest and the purchases at the sale of his Library, many valuable Incunabula and English books of the sixteenth and seventeenth centuries have been added to the Library. Among these are the following:—

Incunabula.

Perottus, Nicolaus: "Rudimenta grammatices." Printed by Arnold Pannartz, Rome, 1474.

A collection of eight law-tracts by Baldus de Ubaldis and Bartolus de Saxoferrato, bound together. Printed by Pasquier Bonhomme, Paris, 1475. Pasquier Bonhomme printed only a small number of books; his work has been hitherto unrepresented in the Library.

"Plenarium," *i.e.*, The Epistles and Gospels for the ecclesiastical year in German, with numerous woodcuts. Printed by Anton Sorg, Augsburg, 1478.

"Vita e transito del Sancto Hieronimo." Printed by Michele Manzolo, Treviso, 1480.

"Die newe Passionel von Jhesu und Marie." Printed by Hans Schoensperger and Thomas Rüger, Augsburg, 1482.

There has been hitherto no book in the Library printed by Schoensperger and Rüger in partnership.

Thomas Aquinas: "Expositio super Aristotelis Libros de Generatione." Printed by Martinus de Lavalle, Pavia, 1488.

"Ghetijden-boek." Hours of the Blessed Virgin in Dutch. Printed by Peregrinus Barmentlo, Hasselt, 1490. An unknown book. Eight works only by this printer have been hitherto described; the present book is the ninth.

Æsop: Fables in Italian. Printed by E. de Sella, Aquila, 1493. Two books only are known to have been produced by this printer. The present copy is imperfect, but contains the greater portion of the text, and twenty-four woodcuts.

Sallust: "Obras." Printed by Juan de Burgos, Valladolid, 1500. A press hitherto unrepresented in the Library.

Ricoldus de Montecrucis: "Improbatio Alcorani." Printed by Stanislaus Polonus, Seville, 1500.

English Books printed before 1640.

Hours of the Virgin according to the Sarum Use. Printed by Wynkyn de Worde, London, 1519. In a contemporary binding. The only copy known.

Fewterer, John: "The Myrrour or Glasse of Christes Passion." R. Redman, London, 1534.

"The Castell of Love. Translated out of Spanish (of Diego de San Pedro) into Englyshe by John Bowrchier, Knyght, Lorde Bernes." John Turke, c. 1540.
An edition hitherto unknown.

"The Boke for a Justice of Peace" and five other law-books bound together. John Waley, London, 1546.

Twenty-nine "Year Books" containing law reports of the reigns of Henry VI., Edward IV., and Richard III. Printed by R. Tottell, London, between the years 1559 and 1587. This acquisition raises the total number of printed "Year Books" in the Library to 242 separate editions.

Hall, John: "The Courte of Virtue." Thomas Marshe, London, 1565.

Garter, Bernard; "The tragicall and true Historie which happened betweene two English Lovers." R. Tottell, London, 1568. The only other copy known is in the Library of Britwell Court.

Nash, Thomas: "The Unfortunate Traveller." Printed by Thomas Scarlet for Cuthbert Burby, London, 1594.
Wanting the title-page. The only other copy known of this second edition is in the Bodleian Library.

Rowlands, Samuel: "Democritus, or Doctor Merryman." John Deane, London, 1607.

Greene, Robert: "Ciceronis Amor. Tullie's Love." J. Smethwicke, London, 1608.

Quarles, Francis: "Divine Poems." J. Marriott, London, 1630.

Parker, Martin: "The Nightingale warbling forth his own Disaster, or the Rape of Philomela." W. Cooke, London, 1637.

The total number of Incunabula added to the Library during the year is 33. The number of English books printed before 1640 is 192.

Donations.—The Loan of the Royal Library of Music by His Majesty the King, and the bequest of the late Mr. Alfred H. Huth are described above.

In addition to these the Library has been enriched by many valuable donations and legacies during the course of the year. Among these are :—

A collection of books and pamphlets, bound in 361 volumes, relating to the "Catholic Apostolic Church," dating from about 1835 to the present time, among which are forty books and pamphlets by Edward Irving. *Bequeathed to the British Museum by the late Mr. Clement Boase.*

A volume of pamphlets relating to Rugby School, which contains, among other matter, "Alaric at Rome." A prize poem, 1840. By Matthew Arnold. "The Longest Day." A poem written at Rugby School, 1836. By A. H. Clough. And prize poems by G. J. Goschen, afterwards Viscount Goschen, R. Congreve, J. Conington, G. A. Lawrence, and others. *Presented by W. F. H. Blandford, Esq.*

"The Benedictional of Saint Æthelwold, Bishop of Winchester, 963–984." Reproduced in facsimile from the Manuscript in the Library of the Duke of Devonshire. Edited by Sir G. F. Warner and H. A. Wilson. Printed for the Roxburghe Club, 1910. *Presented by His Grace the Duke of Devonshire.*

A copy of the second edition of "Notitia Monastica. By Thomas Tanner," 1744, with numerous MS. notes and corrections by John Tanner, editor of this edition. *Presented by Messrs. Hodgson & Co.*

"The Golden Latin Gospels in the Library of J. Pierpont Morgan. Edited by H. C. Hoskier." Privately printed, New York, 1910; and "Collection of J. Pierpont Morgan. Bronzes of the Renaissance and subsequent Periods. Introduction and descriptions by Wilhelm Bode." 2 vol. Privately printed at the Imprimérie Nationale, Paris, 1910. *Presented by J. Pierpont Morgan, Esq.*

"Cornbury and the Forest of Wychwood. By Vernon J. Watney." Privately printed, 1910. *Presented by Vernon J. Watney, Esq.*

A collection of files of Newspapers published in the British Colonies during the year 1910. In continuation of the files presented in former years.

Maps.—The following are among the most important additions to the collection of Maps during the year 1911:—

"La magnifica citta de Brescia, per Donato Rascicotti." Venice, 1599.

"Veue du Chasteau de Fontainebleau du coste du jardin. A. F. Bouduin sculpsit." Paris, 1680.

"Nuova pianta di Roma presente, disegnata et intagliata da Matteo Gregoria di Rossi." Rome, 1773.

Music.—The loan of the Royal Library of Music formerly in Buckingham Palace, by His Majesty the King, has been

described above. Other accessions of special value have been :—

"Musikalische Werke von Prinz Louis Ferdinand von Preussen." Leipzig, 1911. *Presented by H.I.M. the German Emperor.*

"Liber Cantus triginta-novem motetos habet." 4 pts. Ferrara, 1538. A collection of Motets chiefly by Flemish composers. One other copy only is known, in the Royal Library, Munich.

"Onziesme Livre contenant XVIII. Chansons. P. Attaingnant and H. Gallet, Paris, 1541.

"Chansons à quattre parties, composéz par M. Benedictus." H. Loys et J. de Buys, Antwerp, 1542. A work hitherto unknown.

"Quatuor Vocum Musicæ Modulationes." J. Vissenacus, Antwerp, 1542. The only other copy known is in the Imperial Library, Vienna.

Lattre, Claude Jean de: "Lamentationes aliquot Jeremie musicae harmoniae noviter adaptatae." 5 pts. Maestricht, 1554.

Peu d'Argent, Martin: "Sacræ Cantiones quinque vocum." 5 pts. Düsseldorf, 1555.

Le Blanc, Didier: "Airs de pluseurs Musiciens." Paris, 1582.

Bassani, Giovanni Battista: "Resi armonici in motetti a voce sola con violini." Henrico Aertssens, Antwerp, 1691.

G. K. Fortescue.

Department of Manuscripts.

1. *Catalogue of Additions.*—The descriptions of MSS., etc. acquired in 1910 have been printed and have been incorporated in the Class Catalogue.

The following MSS. acquired in 1911 have been described and indexed: Additional 38092–38135, 38137–38138, 38142–38146, 38158–38160, 38162–38166, 38186, 38188, 38189, 38197–38202, 38219, 38237–38240, and Egerton 2895-2898.

The revision of the Index to the Quinquennial Catalogue for 1906-1910 has been completed, and the Index for letters A, B has been printed.

Descriptions of the thirteen MSS. acquired under the Huth bequest have been prepared for the special Catalogue of the Bequest, which has since been published.

2. *Catalogue of Greek Papyri.*—Vol. IV. has been issued and some fragments have been arranged and numbered.

3. *Catalogue of the Royal MSS.*—Descriptions as far as 19 B. xvi have been sent to press, and Royal Appendix 12–64, 74, 75 have been described and indexed. Sheets as far as 2 T of Vol. II. (to 19 B. xiii) are in print.

4. *Catalogue of Romances.*—Two MSS. (Add. 25487 and Harl. 3716) containing Tales from the Decameron have been described for Vol. IV.

5. *Catalogue of early Additional and Egerton MSS.*—Add. 4391–4421 have been described and indexed.

6. *Catalogue of Irish MSS.*—Seventeen MSS. and portions of fifteen others have been described.

7. *Catalogue of Charters.*—Additional Charters 54701–54812, acquired in 1908, and 55195–55426, acquired in 1909, have been indexed; Add. 55182–55193, acquired in 1909, and 55427–55464, 55471–55487, acquired in 1910, have been described and indexed.

The printing of Vol. II. of the General Index of Charters has been continued. Sheets O–2 K (pp. 209–512) to letter M have been revised for press, and slips to letter N (Newburgh) are in type.

8. *Catalogue of Seals.*—Index-slips have been written for Detached Seals CLIV. 88–116, and the index-slips to Seals of Additional Charters have been revised and pasted down as far as letter H.

9. *Binding.* — Seventy-four Additional MSS. and four Egerton MSS. newly acquired, and one hundred and forty-eight MSS. of the old collections, have been bound, repaired, or lettered, together with one hundred and twenty-four pieces of Papyri and ninety Books of Reference, volumes of Facsimiles, and Catalogues.

10. *Verification.*—The entire collection of MSS. has been verified by comparison with the Shelf-Lists, and the special quinquennial verification of the separate items of unbound MSS. has been made. About a thousand charters have also been verified.

11. *Reproductions.* — The introduction by Sir George Warner to the plates taken last year of Royal MS. 2 B. VII. (Queen Mary's Psalter) is nearly ready for the press.

12. *Stamping, folioing, and placing.*—Ninety-two Additional MSS., three Egerton MSS., and two hundred and thirty Books of Reference (all newly acquired) have been stamped; three MSS. of the old collections have been re-stamped, and 3,493 Charters of the old collections have been examined and stamped where necessary. The total of impressions made was 10,920. Two hundred and three numbers were also impressed on MSS.

One hundred and thirty-seven MSS. have been folioed, with a total of 32,216 folios. 30,276 slips have been numbered. Seventy-five MSS. returned from Binders have been examined.

One hundred and thirty-three newly acquired MSS. have been placed, and thirty MSS. of the old collections have been re-placed. All have been press-marked and entered in Hand- and Shelf-Lists. Seven hundred and thirteen Charters and Rolls have been placed and entered in the Hand-Lists. Numbers have been written on 654 newly acquired Charters, and, generally, numbers have been written on Rolls returned from the Binders. Fifty-nine Seals and Casts have been provided with boxes, placed, and entered in the Hand-Lists. The fitting with boxes and temporary replacing of Seals selected from the old collections have been continued.

New Hand-Lists have been made for Cotton MSS., for Egerton MSS., for Egerton Charters, and for Facsimiles; and new Shelf-Lists for Add. MSS. in Saloon Gallery and for Sloane MSS.

13. *Books of Reference.* — Two hundred and twenty-eight volumes and parts have been received, catalogued, and placed.

Twenty-seven volumes and parts of Facsimiles were added to the series now deposited in the Department and available for the use of Readers.

14. *Consultation of MSS.*—32,794 MSS. and 2,733 Charters and Seals have been consulted in the Students' Room, and forty-eight MSS., four Facsimiles, and one Charter in the Reading Room. The number of Students was 11,731.

Magna Charta was exhibited to 16,455 visitors.

15. *MSS. photographed.*—Eight hundred and twenty-seven MSS. (including Papyri, Charters and Rolls) were allowed to be photographed, with a total of 5,949 photographs taken.

16. *Exhibitions.*—A special exhibition of MSS. illustrating the history of the Bible has been arranged in connection with

the celebration of the Tercentenary of the Authorized Version, and a Guide has been prepared.

The MSS. acquired under the Huth bequest were temporarily exhibited; and a special selection of MSS. was set out in October for a visit by German Students.

The General Collection of MSS. exhibited to the public is in process of re-arrangement and a new Guide is being prepared.

17. *Acquisitions.*—The number of Manuscripts and Documents, etc., acquired during the year has been:—

Additional MSS.	419
Egerton MSS.	9
Charters and Rolls	821
Papyri	about 150
Detached Seals and Casts	113

The most interesting acquisition during 1911 are the thirteen MSS. which form part of the fifty books selected from the Huth Library under the terms of Mr. Arthur Huth's will. These important MSS., which are described in *The Huth Bequest* published by order of the Trustees, 1912, are briefly as follows:—

Bible, in Latin, illuminated in France; 13th cent. Two vols.

Psalter, in Latin, illuminated in England; end of the 13th cent.

Merlin, the prose romance in French: unique MS. of the version used by Sir T. Malory; beginning of the 14th cent.

Apocalypse, in French, well illuminated; beginning of the 14th cent.

Speculum Humanae Salvationis, etc., in 134 scenes; late 14th cent.

G. de Deguileville, Les Trois Pèlerinages, with numerous drawings; 14th–15th cent.

Apocalypse, in Latin, executed in the Netherlands; early 15th cent.

Bible History, in Flemish; middle of the 15th cent.

Book of Hours, in Dutch; 15th cent. Engraved illustrations.

Book of Hours; end of 15th cent. Miniatures, etc., in Milanese style.

Petrarch, Trionfi, etc.; end of 15th cent. Miniatures, etc., in Milanese style.

Book of Hours; *circ.* 1500. Miniatures, etc., in the finest Flemish style.

Another most important donation is a large collection of state papers, forming three hundred volumes, etc., from the family collections of the Earls of Liverpool; including original letters of George III., George IV., Newcastle, Bute, Chatham, William Pitt and others. *Presented by the Hon. Henry Berkeley Portman.*

A considerable collection of Greek papyri, chiefly of the 1st-3rd centt., has been purchased, including large portions of the Iliad, book ii; two rolls containing official correspondence on the preservation of the public records, A.D. 124; some long land-registers, A.D. 198; and about 130 other documents in excellent condition, besides fragments, largely of an official character.

Another notable purchase is that of a collection of MSS. of Mexican picture-writing, including a skin codex in colours and a number of pieces of aloe-paper with drawings relating probably to local history. Of a date prior to the Spanish conquest.

Of the MSS. purchased at public sales during the year the majority came from the Phillipps collection, a further portion of which was sold on 24–28 April, and from the Townshend heirlooms, sold 18, 19 Dec. The most important are included, with others acquired by purchase or donation, in the list which follows:—

Vita S. Neoti, Bedae Historia Ecclesiastica; 12th cent.

J. Belet, Summa de ecclesiasticis beneficiis, etc.; 12th–13th cent.

Odo of Cheriton, Sermons; 13th cent.

Chronique de S. Denys; 13th cent.

Latin dictionary, written in Italy; 13th cent.

Lives of saints in English verse; 14th cent.

William of Malmesbury, Gesta Regum, etc.; late 14th cent.

R. Rotherham, De pluralitate beneficiorum; late 15th cent. In the original English stamped leather binding.

Statuta Angliae, Liber custumarum London; 14th–15th cent.

Ordinances for services at Court, etc., *temp.* Hen. VII.; 16th cent.

Book of diet-expenses of the Lords of the Council, 1545–1551.

Wardrobe-book of Qu. Mary, 1554–1555.

Letter-book of Sir H. Unton, Ambassador to France; 1591–1592.

Papers of Sir Julius Cæsar, Judge of the Admiralty Court, etc.; 1582–1619.

Letter-book of T. Parry, ambassador to France; 1602–1603.

Report of Sir R. Southwell on treasonable correspondence of E. Colman, 1674–5.

Correspondence of Sir R. Southwell and E. Southwell as vice-admirals of Munster; 1677–1749. Six vols.

Accompt of Sir G. Wharton, Treasurer of the Ordnance; 1679–1680.

Book of Irish revenue receipts and payments; 1683–1684.

Letter-books of the Polish ambassador at the Hague, 1686–1689. Four vols.

Correspondence of Sir R. Case, Lord Chancellor of Ireland, with Sir R. Southwell and E. Southwell; 1687–1726.

Correspondence of James II. with Pope Alexander VIII., etc.; 1689. Contemporary copies.

Letters of R. Talbot, Earl of Tyrconnel to Mary of Modena; 1689–1690. Contemporary copies.

Register of letters, etc. of William III., Lord Nottingham and Sir R. Southwell when the king was in Ireland; 1690.

Report to William III. on forfeited estates in Ireland; with other Irish papers, 1768–1783.

Journal of the Duke of Ormonde's expedition to Spain, 1702.

Register of letters of E. Southwell as Sec. to the Lord Lieutenant of Ireland; 1703-1707.

Entry-book of letters of the Duke of Marlborough and Viscount Townshend to the Secretaries of State; also drafts and copies of despatches to and from them; 1709–1711.

Correspondence of Horatio Walpole, secretary to Townshend's embassy; 1709–1711.

Register of petitions to the Irish Government; 1711–1713.

Narrative by Roger Acherley of his correspondence to secure the Hanoverian succession; 1712–1714.

Letters concerning the Scottish rising and English riots in 1715, with other Jacobite papers, including reports of Petkum, a secret agent abroad.

Original letters to Viscount Townshend from Horatio Walpole and others, 1725–1726. 3 vols.

Autograph memoranda of George II. on despatches submitted by Viscount Townshend, 1728–1729.

Notes of debates in the House of Lords, by Lord Chancellor Hardwicke, etc.; 1740–1763.

Papers relating to the settlement of Nova Scotia, 1765, etc.

Letters and copies of documents relating to Irish affairs chiefly in the Marquis of Wellesley's administration; 1782–1835.

Narrative of the battle of Enniscorthy, 1798, by T. Handcock. *Presented by Mrs. Sarah Disney.*

Register of letters of R. Pio, cardinal of Carpi, nuncio in France, 1528–1544.

Transcripts of Swedish despatches relating to England, 1655–1656; made for S. R. Gardiner, the historian. *Presented by Professor C. H. Firth.*

Essai historique de la Vendée, par M. de Solignac, *circ.* 1795.

Roll of arms of knights supposed to have been quartered on Ely Abbey by William the Conqueror; early 15th cent.

Visitation of the see of Derry by Archbishop Cotton; 1397. Vellum roll.

J. Leland, monastic collections; *temp.* Henry VIII. Autograph fragment.

Forms of warrants, etc.; middle of 16th cent.

Genealogical and historical collections; middle of 16th cent.

Sir P. Manwood, historical collections; *circ.* 1605.

Correspondence of Sir Sackville Crow, Bart., and others; 1633–1726.

Sir W. Dugdale, papers, partly autograph, relating to the Order of the Garter, etc.; *temp.* Chas. II. 2 vols.

Catalogue of the Arundel cabinet of gems, 1731.

Letters of Egyptologists to R. Hay, 1826–1862. *Presented by Robert Hay, Esq. (the son).*

Glossary of the dialect of Cornwall by W. F. P. Jago; 19th cent.

Album of signatures of visitors to the British section of the Vienna Field Sports Exhibition, 1910. *Presented by the President of the Board of Trade.*

J. Urry and others, collections for an edition of Chaucer (publ. 1721). Four vols. *Presented by Sir W. S. McCormick.*

Ledger-book of "The Public Advertiser," 1765-1771. *Bequeathed by Sir C. W. Dilke, Bart.*

Correspondence (with several autograph works) of James Henry Leigh Hunt; 1807–1859. Seven vols.

One leaf of Charles Dickens' autograph MS. of the "Pickwick Papers." *Presented by Mr. W. A. White, of New York.*

"History of European Morals," by W. E. H. Lecky: the author's autograph MS. Two vols. *Presented by Mrs. Lecky.*

E. von Hartmann, "Die deutsche Æsthetik seit Kant": the author's autograph MS. *Presented by Frau Alma von Hartmann.*

Thomas Hardy, "Tess" and "The Dynasts": the autograph MSS. *Presented by the author through Mr. S. C. Cockerell.*

Plan of Ebury manor, co. Midd., *circ.* 1665.

Charter-roll of the manor of Great Sampford, co. Essex belonging to the De Ros family; 16th cent. *Presented by S. J. Wilde, Esq.*

Charters (420) relating to Little Chart and Pluckley, co. Kent; 1282–1686.

Roll of inquisitions of knights' fees, cos. Oxon. and Berks; 1354, 1357.

Court-rolls (13) of Morden manor, co. Surrey; *temp.* Ric. II. —1655.

Charter of William, Earl of Gloucester; *temp.* Hen. II.

Court-rolls (50) of Goring, co. Sussex. *Presented by E. Carleton Holmes, Esq.*

Genealogy of Cotton, 1638; continued to 1722.

Pedigrees of Cruickshank, Gordon and Stewart. Three paper rolls. *Presented by General William Gordon.*

Suffolk collections by J. J. Muskett. 3 vols.

Indices to parish registers of Hornby and Leeds, co. York, by Rev. E. Cookson. *Presented by the compiler.*

Plans of ancient earthworks in cos. Bucks., Cambs., Derby and Hertf., by E. A. Downman.

"Narcissus," a dramatic cantata, and "Ulysses," a dramatic oratorio, by Samuel Butler and H. F. Jones. *Presented by H. Festing Jones, Esq.*

Collection of songs and dance-tunes; early 18th cent.

Collection of rare and early airs, Welsh melodies, etc.; early 18th cent.

J. P. Gilson.

Department of Oriental Printed Books and MSS.

Cataloguing and Arrangement.—The numbers of the sheets of the various Oriental Catalogues and other publications of the Department sent to press in 1911 are:—Armenian MSS. Catalogue, 25; Index to Chinese Encyclopædia, 11½; Coptic Texts, 14; Hebrew MSS. Catalogue, 11; Telugu Printed Books Catalogue, 19.

The numbers of Titles written for the Catalogues are:—Arabic, 209; Armenian, 4; Assamese, 29; Avestan, 25; Baluchi, 5; Bengali, 441; Brahui, 2; Burmese, 308; Chinese, 766; Ethiopic, 8; Gujarati, 151; Hebrew, 72; Hindi, 718; Hindustani, 504; Kannada, 143; Karen, 5; Kashmiri, 4; Khassi, 2; Khond, 2; Laos, 1; Lushai, 20; Malay, 4; Malayalam, 79; Manipuri, 20; Marathi, 195; Mon (Talaing), 7; Naga, 2; Oriya, 78; Pali, 134; Panjabi, 53; Persian, 933; Prakrit, 18; Sanskrit, 865; Santali, 9; Siamese, 25; Sindhi, 29; Sinhalese, 68; Sunda, 8; Syriac, 19; Tamil, 480; Telugu, 673; Tibetan, 17; Toda, 2; Tulu, 7; Turkish, 39. Total, 7,183.

Twenty-nine Hebrew MSS. have been fully catalogued.

One hundred and fifteen short descriptions of MSS. have been entered in the Descriptive List, the Register, and the Classed Inventory.

Fifty-three MSS. (9,109 ff.) have been folioed.

Two Exhibition-cases in the King's Library have been cleared of their former contents, the place of which has been taken by a number of select miniatures of the best Persian and Indo-Persian schools, which have been duly arranged and furnished with brief descriptions.

Publications.—An Index to the Chinese Encyclopædia (T'u Shu) has been issued.

Binding.—The numbers of Printed Books and MSS. sent to the binders are:—Arabic and Persian Books, 158; Chinese Books, 181; Hebrew Books, 1; Mongolian Books, 11; Books in Sanskrit and other Indian languages, 273; Tibetan Books, 16; MSS., 111.

Students.—The number of visits of Students working in the Students' Room attached to the Department during the year is 2,617. The number of Oriental Printed Books consulted in the Department is 7,096 (4,392 being issued once only, and 2,704 reserved), and of those used in the Reading Room, 2,507. The number of Oriental MSS. consulted in the Students' Room is 6,671.

Photography.—Ninety-six applications have been made to photograph books and MSS. in this Department.

Additions.—The number of volumes and pamphlets added to the Department during the year is 2,388, of which 2,273 are Printed Books and 115 are MSS.

Of the Printed Books, 275 were bought; 1,683 were received under the India Copyright Act; 95 were received under the Colonial Copyright Acts from Ceylon and Hongkong; and 220 were presented. Of the MSS., 31 were bought and the rest presented.

The MSS. are as follows:—

Arabic	15
Arabic and Turkish	1
Armenian	1
Chinese	1
Coptic	2
Gujarati	6
Hebrew	2
Hindi	1
Hindustani	2
Kashmiri	2
Persian	11
Persian and Turkish	1
Prakrit	1
Prakrit and Gujarati	3
Sanskrit	3
Sinhalese	58
Turkish	5
Total	115

The most important acquisitions are as follows:—

Arabic MSS.—(1) Kitāb al-durrah al-mudīyah, a treatise on the differences between the Ḥanafī and Shāfi'i schools of jurisprudence, by Abu al-Ma'ālī 'Abd al-Malik al-Juwainī (Imām al-Ḥaramain). Copied for the library of Abu al-Maḥāsin 'Abd al-Razzāḳ ibn 'Abd Allāh ibn 'Alī ibn Isḥāḳ by Abu al-Ḥasan 'Alī ibn Muḥammad al-Abīwardī in A.H. 482 (A.D. 1089). 8°. No other copy is known to exist.

(2) Aḥkām al-sulṭānīyah, a treatise on polity, by Māwardī. Copied A.H. 540 (A.D. 1145). 8°. *Presented by H. F. Amedroz, Esq.*

(3) Tafsīr sittat ayyām al-khalīḳah, the first part of a homiletic commentary on Genesis by John Chrysostom. This volume treats mainly of the Creation, two homilies dealing with the following chapters. Copied A.H. 637 (A.D. 1240). 4°. Only a fragment of this work has hitherto been known to exist.

(4) Zuhrat al-riyāḍ wa-nuzhat al-ḳulūb al-marāḍ, a treatise on ethics, by Sulaimān ibn Dāūd al-Ṣuwārī, originally written in Persian under the title Bahjat ul-anvār min khafīyāt ul-asrār, and later amplified and translated into Arabic. Copied A.H. 809 (A.D. 1407). 8°. No other copy is known.

(5) Al-najm al-wahhāj, a commentary by Muḥammad ibn Mūsa al-Damīrī on Al-Nawawī's Minhāj, a summary of Shāfi'i law. Vol. 1, copied A.H. 858 (A.D. 1454); vol. 4, copied A.H. 898 (A.D. 1494). 4°.

(6) Makārim al-akhlāḳ, a work on ethics by Abu Bakr ibn ʿAbd Allāh ibn Muḥammad ibn Abi Dunyā. Copied A.H. 966 (A.D. 1558). 12°.

(7) Taisir al-wuṣūl, a work on the Traditions, compiled by ʿAbd al-Raḥmān ibn ʿAlī al-Dībaʿ from the Jāmiʿ al-uṣūl li-aḥādīth al-rasūl. Copied A.H. 993 (A.D. 1585). 4°.

(8) Sharḥ al-shamā'il, a commentary by ʿAbd al-Ra'ūf al-Munawī on Muḥammad ibn ʿĪsa al-Tirmiḍī's Shamā'il, traditions of the Prophets. xviiith century. 4°.

(9) Saḥīfat al-ausaʿīyah, Najamat al-rūḥ, Tadliʿ al-ḳuds, Kitāb al-akṣā, and Jawāmiʿ al-hayākil, works on Bābī theology by Subḥ i Azal. Copied A.D. 1911. 8°.

Arabic and Turkish MS.—(1) Nuzhat al-abrār fīm anāḳib, al-akhyār, biographies of the jurist Abu Ḥanīfah and some of his earlier followers; in Arabic, with marginal glosses, etc., in Turkish. Copied A.H. 867 (A.D. 1462), by Aḥmad ibn Aḥmad al-Basṭāmī. 4°. No other copy is known to exist.

Armenian MS.—The Key of Truth, a manual of the Paulician Church of Armenia. Copied A.D. 1782. 8°. *Presented by F. C. Conybeare, Esq.*

Chinese MS.—(1) Parts 11903–4 of the Yung-lo ta teen, the great Imperial Encyclopædia compiled in 1408, and originally comprising 22,877 parts and an index of 60 parts, the whole being bound in 11,100 volumes. Only one copy of the complete work survived to the nineteenth century, and this was almost entirely destroyed in the burning of the Han-lin College at Peking during the Boxer disturbances in 1900, only a few volumes being saved. Fol. *Presented by G. M. H. Playfair, Esq.*

Coptic MSS.—(1) A papyrus volume containing 109 ff., comprising a Sahidic version of Deuteronomy, the Book of Jonah, and the Acts of the Apostles. Probably early ivth century.

(2) A volume of discourses by Bishop Psote and Severus of Antioch. Vellum; xth century. 4°.

Hebrew MSS.—(1) Sēpher Mēshārīm, a digest of religious law, by Yerūḥām. xiv–xvth century. 4°.

(2) Sēpher Ṣēdāh Ladderekh, a similar work, by Menaḥēm ben Aharōn. C. xvth century. 4°.

Hindi MS.—(1) A history of the Rajas of Jodhpur. Copied A.D. 1825. *Presented by Colonel S. R. Miles.*

Hindustani MSS.—(1) Ḥaidar-nāmah, an account of the fall of Tippu Sultan and the capture of Seringapatam. 8°. *Presented by Frederick Jones, Esq.*

(2) A poem on the coronation of His late Majesty King Edward VII., composed and written in a calligraphic hand by Kunwār Durgā Prasād, Talukdar, of Sandila, Hardoi District, Oudh. 4°. *Presented by L. H. Turner, Esq.*

Kashmiri MSS.—(1) Miscellaneous odes, written in Persian script on a long roll. *Presented by Dr. A. K. Coomaraswamy.*

(2) A volume of poems on Moslem themes, in Persian script. 12°. *Presented by Dr. A. K. Coomaraswamy.*

Persian MSS.—(1) Ḥadā'iḳ ul-anvār, the encyclopædic problems of Fakhr ul-Dīn Rāzī, in the enlarged recension. C. xiiith century. 8°.

(2) Dīvān of the poet Āhī. C. xvith century. 8°.

(3) Dīvān of the poet Ḥāfiẓ, with eight exceptionally beautiful full-page miniatures, of which seven are in the finest style of the Indian-Persian school, while the eighth is in the best classical Persian manner. The paragraphs are adorned with delicate paintings of various kinds of birds. C. A.D. 1600.

(4) A ms. containing 16 tracts on Ḥurūfī mysticism, including the Shīrab-nāmah of Saiyid Isḥāḳ and a Sharḥ i khuṭbah ul-bayān. Copied A.H. 1007 (A.D. 1598). 16°.

(5) Dīvāns of the poets Hindī, Suhailī, Riyāẓī, and Ḥubbī. C. xviith century. 12°.

(6) Poems of Bāḳir (Maulānā Muḥammad Bāḳir of Kāshān. C. xviith century. 12°.

(7) Lamaḥāt, a commentary by Shaikh Yār 'Alī Shīrāzī on the Sufic tract Lama'āt of Fakhr ul-Dīn 'Irākī. C. xviith century. 12°.

(8) Maḥshar-nāmah, a work on Ḥurūfī mysticism by Abu ul-Faẓl va l-'Alām Amīr 'Alī 'Ālī 'Alā. Copied A.H. 1120 (A.D. 1708). 12°.

Persian and Turkish MS.—(1) A ms. containing four works on Ḥurūfī mysticism. C. xviiith century. 12°.

Prakrit MS.—(1) The Pannavaṇā, a Jain scripture. C. xvith century. *Presented by Colonel S. R. Miles.*

Sinhalese MSS.—(1) A collection of 58 Sinhalese mss., chiefly treating of the folklore, magic, and local cults of Ceylon. *Presented by Dr. A. K. Coomaraswamy.*

L. D. Barnett.

Department of Prints and Drawings.

I.—*Arrangement and Cataloguing, etc.*

Nineteen drawings from the Salting Collection were removed in February from one of the screens in the King's Library, in order to give place to fifteen drawings by the late J. M. Swan, R.A., the gift of the John M. Swan Memorial Fund.

The woodcuts described in Vol. II. of the Catalogue of Early German and Flemish Woodcuts, but not yet mounted, have been re-arranged in two portfolios.

The etchings by Goya, and the German book-plates in the Franks Collection (T—Z), have been placed in order for mounting.

One hundred and ninety-one drawings and one thousand and sixty-two prints have been incorporated with the divisions of the Collection to which they severally belong.

All books of prints and books of reference recently acquired have been catalogued, labelled and placed.

Vol. II. of the Catalogue of Early German and Flemish Woodcuts has been published.

The preparation of the Catalogue of Japanese Woodcuts has been continued, and the main body of it completed.

The preparation of a complete classified index of the works of English artists represented in the Department has been continued.

The card index to periodicals has been completed and brought up to date.

The preparation of a critical and descriptive Catalogue of the Dutch and Flemish Drawings has been begun.

The work of taking stock of the prints after Italian Masters, and making cross-references from these to the various indexes, has been continued.

The work of writing slips for the titles of prints after English Masters with a view to the preparation of a subject-index of that division of the collection has been continued.

The work of compiling a topographical slip-index of the English Drawings in the Department has been continued.

Slips have been written for a chronological list of the artists represented in the Catalogue of English Drawings and for an index of the portraits in the same catalogue.

A slip-index of the American Portraits has been made.

The preparation of an index to the Catalogue of the Crace Collection of London Views has been begun.

The preparation of an index of the presses containing the Books of Prints and Books of Reference has been completed.

A list of the contents of the cases in the Department has been prepared, and the work of verifying the contents from the case-list and inserting the case-number in the various portfolios, etc. has been taken in hand.

The Cheylesmore Collection of sale-catalogues has been examined; such numbers as were not required for the Museum Collection have been eliminated; and the work of indexing those required has been carried out.

A duplicate set of slips for the Index of Foreign Portraits has been begun.

The preparation of a second working copy of the register of the Cheylesmore Collection has been completed.

The type-writing for press of the Catalogue of Japanese Woodcuts has been continued.

The work of copying the slips of the Catalogue of Engraved British Portraits has been continued.

All additions and corrections to the indexes of artists made necessary by recent acquisitions and re-arrangements have been carried out.

Registration.—One thousand eight hundred and eighty-six items have been entered in the Register of Acquisitions.

Stamping and Mounting.—Three thousand eight hundred and fifty-two prints, drawings, etc., recently acquired, have been impressed with the departmental stamp and references to the Register.

One hundred and fifty-nine miscellaneous drawings have been prepared and mounted on sunk mounts, and one hundred and sixty-seven prints have been mounted either on sunk mounts or in the ordinary manner.

Two hundred and twenty-five prints have been lettered with the artists' names and references to the Register.

The work of stamping the Franks Collection of admission and invitation cards has been begun.

Six drawings by Michelangelo have been protected with gelatine and mounted in special mounts.

Twenty-six Japanese woodcuts requiring special treatment have been repaired and cleaned.

Two important Japanese paintings, one by Sesshiu, the other by an anonymous master of the Tosa school, have been framed, glazed and mounted on six-fold screens.

Forty-nine Chinese Buddhist paintings on silk, and one on paper, from the collection formed in Turkestan by Dr. Stein, were mounted in a complete manner by the chief mounter for exhibition during the summer months in the Indian section of the Festival of Empire at the Crystal Palace.

Two hundred and fifty-seven Chinese Buddhist paintings on silk, and sixty seven prints, portions of banners, brocades, and

other fragments from the collection discovered by Dr. Stein have been pieced, cleaned, and provisionally mounted under the supervision of the chief mounter.

A complete stock-taking and re-arrangement of the contents of the Mounters' Room has been carried out.

Students.—The total number of visitors admitted to the Print Room during the year ending 31 December 1911 was 9,649.

Photographing.—Five hundred and eight applications were made for leave to photograph, and 3,012 photographs were taken.

II.—*Acquisitions.*

The total number of prints, drawings, etc. acquired during the year was 2,890, of which the following are the most important:—

Italian School.

Drawings.

Brescia, Giovanni Antonio da. Group from a relief on the Arch of Constantine; pen and bistre wash.

Carriera, Rosalba. A girl's head; pastel on blue-grey paper.

Caula, Sigismondo. Christ healing the paralytic; pen and sepia, with sepia wash. From the Reynolds Collection.

Farinati, Paolo. A miracle of the Holy Cross; pen and bistre wash, heightened with white. From the Lely Collection.

Garofalo (Benvenuto Tisi). Christ taking leave of his Mother; sepia wash.

Woodcuts.

Anonymous, 16th century. The Good Samaritan. *Presented by R. Ranshaw, Esq.*

Prints arranged to illustrate the Works of Masters.

Raphael. Paul and Barnabas at Lystra; engraved from the Cartoon by T. Holloway, R. Slann, and T. S. Webb.

German School.

Drawings.

Altdorfer, Albrecht. Death of a warrior in the forest, his head resting on a woman's lap; pen and Indian ink on olive-green prepared ground, heightened with white; dated 1513.

Anonymous, 16th century. Caritas Romana; a woman giving the breast to her aged father; pen and ink, partly tinted. From the Reynolds, Thane, and Esdaile Collections.

Etchings.

Liebermann, Max. Thirty-three etchings, eleven of which are not described in the Catalogue by Schiefler; mostly scenes in Holland. *Presented by the artist, jointly with Herr Bruno Cassirer, the publisher.*

Engravings.

Berlin Passion, the Master of the. The Visitation (Lehrs, 5). Only one other impression known. From the Arthur Champernowne Collection.

E.S., the Master. Panel of leaf ornament, with six birds. (Lehrs, 314 B). Only one other impression known.

Meckenem, Israhel van. Christ and the Woman of Samaria (Bartsch, 13; Geisberg, 45); first state. Christ driving out the Money-Changers (Bartsch, 16; Geisberg, 50); first state. The Last Supper (Bartsch, 18; Geisberg, 51); first state. The Agony in the Garden (Bartsch, 19; Geisberg, 56); first state. The Betrayal (Geisberg, 60); first state; the only impression described. Pilate washing his hands (Geisberg, 79); first state. Christ descending into Hell (Geisberg, 110); first state. The Last Judgment (Geisberg, 126); first state. Christ before Annas (Geisberg, 63); first state. All from the Huth Collection.

Meckenem, attributed to, Head of an Oriental, probably after a drawing by Schongauer. (Pass. II., 146, 1.) Only two other impressions known. From the Champernowne Collection.

Playing Cards, the Master of the. A Stag. From the Huth Collection.

Woodcuts.

Anonymous, 15th century. St. Andrew (Schreiber, 1189); The Martyrdom of St. Catherine (Schr. 1348); St. Dorothea (Schr. 1402). These three formerly in the Weigel Collection. St. Jerome extracting a thorn from the lion's foot (Schr. 1551). The Martyrdom of St. Ursula and her Companions (Schr. 1710). St. Veronica (Schr. 1721). St. Christina (Schr. 2589); Manière Criblée; coloured; in fine preservation. All from the Huth Collection.

Baldung, Hans. The Nativity (Pass. 61; unknown to Bartsch). The Two mothers (B. 46). The Assumption of St. Mary Magdalen (Pass. 71). All from the Huth Collection.

Beck, Leonhard. Thirty-two illustrations to Pfinzing's "Theuerdank." Proofs with a fourfold border to each subject; the only impressions known in this state. From the Huth Collection.

Beham, Hans Sebald, after. Set of twelve copies, with Italian text, from the engravings by Beham of the Twelve Apostles; with a frontispiece of Christ Blessing, not after Beham. No other impressions have been described. From the Huth Collection. *Presented by Campbell Dodgson, Esq.*

Burgkmair, Hans. Seven illustrations to "Theurdank." Proofs with fourfold border; the only impressions known in this state. From the Huth Collection.

Cranach, Lucas I. The Wittenberg Heiligthumsbuch, 1509, with an engraving and numerous woodcuts by L. C. From the Huth Collection; a great rarity. *Presented by Campbell*

Dodgson, Esq. The Last Judgment (Schuchardt, 109). *Presented by David Keppel, Esq.* Set of Twelve Apostles, with Christ and St. Paul (B. 23–36; Sch. 46–59). From the Huth Collection.

Cranach, Lucas II. Portrait of Melanchthon, 1548. Undescribed. From the Huth Collection.

Cranach, Hans. Christian II., King of Denmark. From the Huth Collection.

Dürer, Albrecht. The Holy Trinity (B. 122); a very fine impression. From the Theobald Collection. *Presented by the National Art-Collections Fund.*

Dürer, Albrecht (?) Christ on the cross between the Virgin and St. John. From the Elischer Collection.

Dürer, School of. The Conversion of Saul (B. app. 17); early impression with Latin and German verses below. From the Aylesford and J. S. Burra Collections.

Endell, Fritz. Frontispiece to a catalogue of original woodcuts. Book-plate of the King of Würtemberg, printed in black, green, and gold. Design for a menu, printed in gold. Fischer. Das Ende. Pont Neuf, Paris. Mühselig und Beladen. Luftballon. Treppe in Sèvres. Gefangen; chiaroscuro print. Pessimismus ist vom Teufel. Das Neue Jhar. Büste. Am Brunnen. *All presented by the Artist.* Cabaret. Rauch. New Year's Card. Ornament. The wood engraver at work. *Presented by Campbell Dodgson, Esq.*

Gerung, Matthias. Volume of forty-seven woodcuts. From the Huth Collection.

Huber, Wolfgang. Three Landskneckts; dated 1515; the only impression known. From the Herryns and Huth Collections. *Presented by Henry Oppenheimer, Esq.*

Schäufelein, Hans Leonhard. Three illustrations to "Theuerdank." Proofs with fourfold border; the only impressions known in this state. From the Huth Collection. The Raising of Lazarus (B. 17).

Schön, Erhard. Theuerdank hunting; illustration to "Theuerdank"; proof. From the Huth Collection.

Solis, Virgilius. Biblische Figuren. Frankfurt a. M. 1560: the first edition. From the Huth Collection.

Wechtlin, Hans, attributed to. St. John in Patmos (B. VII. 484. 1). From the Huth Collection.

Prints arranged to illustrate the Works of Masters.

Dürer, Albrecht. Portrait of Hieronymus Holzschuher; etching by Charles Bourgeat. *Presented by Charles Bourgeat.*

Schools of the Netherlands.

Drawings.

Anonymous, Dutch School, early 16th century. Biblical subject. Pen and ink.

Woodcuts.

Cornelisz, Jacob. The Last Supper. Christ on the Mount of Olives. The Mocking of Christ. Christ presented to the people. The Lamentation for Christ. The Resurrection. From the round Passion series. (B. 1, 2, 5, 8, 11, 12). All from the Huth Collection.

FRENCH SCHOOL.

Drawings.

Bourgeois, Constant. Italian landscape with a waterfall, dated 1790. Alpine landscape, dated 1791; sepia wash.

Guys, Constantin. A military review; pen and ink with colour wash.

Etchings.

Gillot, Claude. A Bacchanalian subject.

Guérard, H. Head of Thiers after death,

Engravings.

Gaillard, Ferdinand. Prince Bibesco. *Presented by Campbell Dodgson, Esq.*

Jourd'heuil, François. La Faiseuse de Choux-Croûte; after G. Dou. *Presented by R. C. Wilson, Esq.*

Woodcuts.

Anonymous, early 17th century. A hunting party. *Presented by Sydney Vacher, Esq.*

Lithographs.

Daumier, Honoré. Six portrait caricatures of Guizot and others. *Presented by Campbell Dodgson, Esq.*

Delacroix, Eugène. Sixteen illustrations to Hamlet. Second edition, Paris, 1864.

Prints arranged to illustrate the Works of Masters.

Daumier, Honoré. L'Amateur; etching by Charles Bourgeat. *Presented by M. Bourgeat.*

David, J. L. Portrait of M. Sériziat; etching by Charles Bourgeat. *Presented by M. Bourgeat.*

La Hire, L. de. Title-page to "Les Caractères des Passions"; engraving by M. Lasne.

RUSSIAN SCHOOL.

Drawings.

Anonymous. Two women; pen and bistre. Combat of nude men, and other studies. *Presented by Dr. J. Law Adam.*

Foreign Artists working in England.

Drawings.

Rebecca, Biagio, A.R.A. Pomona and Cupids. Apollo and Cupids. Meleager and Atalanta. Design for decoration for ceiling. Design for ceiling, with Apollo and Minerva. Pen and ink and water-colours. *Presented by C. F. Bell, Esq., F.S.A.*

Etchings.

Rischgitz, Edouard. Portrait of Sir Henry Irving; dry-point. Round Tower, Windsor Castle. Eton College. Eight illustrations to the Fables of La Fontaine. *Presented by Augustin Rischgitz, Esq.*

Engravings.

Gribelin; Simon. The Conversion of St. Paul. Virgil and Horace. Christ praying. A Pope or bishop despatching missionaries; counterproof. *Presented by Sydney Vacher, Esq.*

Woodcuts.

Pissarro, Lucien. Nine proofs of illustrations to Judith Gauthier's "Livre de Jade" printed at the Eragny Press. Printed in colours and gold. *Presented by Lucien Pissarro, Esq.*

English School.

Drawings.

Blackburn, Jemima (Mrs.). Thirty-six studies of birds and animals, some of them engraved in "Birds drawn from Nature," Edinburgh, 1862; water-colours. *Presented by the executors of the late Professor Hugh Blackburn, of Roshven.*

Cundell, Henry. The Horse Guards at Whitehall, dated 1832; water-colours. *Presented by Wilfred M. Cundell, Esq.*

Evelyn, John. Prospect from the side of Mount Vesuvius, 1646; preliminary drawing for an etching; black and red chalk.

Gregory, Edward John, R.A. Study for the picture "Boulter's Lock"; water-colours. Two other studies for the same picture; pencil and Indian ink wash.

Hoppner, John, R.A. Two studies for the picture of the Lambton family; sepia wash.

Pearce, C. Maresco. Fishing Quarters, Mentone; water-colours. *Presented by the Artist.*

Reynolds, Sir Joshua, P.R.A. A child holding a veil in both hands; sketch in black chalk, heightened with white. Three studies of a child; black chalk.

Stark, James. Yarmouth Bridge; pencil. Cromer; pencil, heightened with white. Cottage and trees; water-colours. Sunset; water-colours. Field and distant trees; water-colours.

Boats and trees; water-colours. Sandhills and heather; water-colours. Sandhills and crescent moon; water-colours on grey paper. Heath and windmill; water-colours on grey paper. Boat in dock; water-colours. Eel-traps; pencil and water-colours.

Stark, Arthur James. Interior of windmill, Reigate, fitted up as a chapel; water-colours. Windmill and cottage; water-colours. Heath-scene; water-colours.

Strang, William, A.R.A. Portrait of Sergius Stepniak; gold point. *Presented by Robert Steele, Esq., through the National Art-Collections Fund.*

Swan, John Macallan, R.A. Design for Christmas Card; pen and ink and blue wash. Group of Egyptians; water-colours. Nude Study ("Siren") with arms raised; black chalk on blue paper. Back of a woman, nude study; black and white chalk on dark blue paper. Study of a nude woman in bonds ("Maldonada"); black chalk with crayons on light blue paper. Study for picture of a boatman catching a siren in his net; black chalk. The Victoria Falls, S. Africa; crayons. A snake coiled; black chalk. Back of a puma; black and white chalk on brown paper. A lioness carrying her cub; pen and ink, black and coloured chalk. A leopard walking; black, white and yellow chalk on brown paper. Head of a seal; black and white chalk on dark brown paper. Lion and lioness drinking; charcoal on brown paper, heightened with white. Two studies of a leopard's head; charcoal on brown paper, heightened with white. Wounded puma licking itself; coloured chalks on dark blue paper. Black leopardess walking; charcoal. Seated lioness; black and coloured chalks on buff paper. *Presented by the John M. Swan Memorial Fund.*

Thornhill, Sir James. Head, inscribed "Jack Sheppard"; pen and sepia wash.

Turner, Charles. Oxford Races; water-colours.

Walker, Frederick, A.R.A. Portrait of Frank Nowlan, drawn in 1858; pencil. *Presented by Frank Nowlan, Esq.*

Watson, John, P.S.A. Portrait sketch of a gentleman in uniform, 1792; black chalk, heightened with white.

Etchings.

Charlton, Edward William, R.E. Street corner, Lymington. The Thunder Cloud. Rochester Castle. The Pilot's Pier, Gravesend. The Broken Boat. The White Barque. At the Tide Gate. Much Merchandise. *Presented by the Artist.*

Crawford, Susan Fletcher, A.R.E. La Grande Place, Bruxelles. Golf Links, St. Andrew's. Rue Ingartenne, Marseille. *Presented by the Artist.*

Dalgliesh, Theodore Irving. Mercery Lane, Canterbury. Dawn. Easter Procession, Northern Spain. The Windswept Moor. Portrait. Sketch of Model. Campo Santo, Avila.

Jack. The Stream. Portrait. The Hillside. Barrio de Pescadores, Fuentarabia. Abbot's Cliff, Folkestone. The Card Trick. On the Dunes.

Gillray, James. Shakespeare sacrificed; 1789. *Presented by E. E. Leggatt, Esq.*

Goff, Col. Robert C. One hundred and four etchings of subjects from English, Italian, Egyptian and other scenery and architecture, studies of flowers, leaves, etc., including three index plates, in four portfolios; being volumes V.–VIII. of the etched work of the artist. *Presented by the Artist.*

Haden, Sir Francis Seymour, P.R.E. The Pillar of Salt (H. 246); first state. *Presented by the executors of the Artist.*

Livens, Horace Mann. The Old Fowler; first and third states. Treble notes. Cock and Hen. White Hens. "Immediately the Cock Crew." Hen and Chicks. Chrysanthemums; hand-coloured. Portrait of a lady; second state. Old London wall-papers; fourth state. Head of a man; second state. A London passage; second state. Who?; hand-coloured. Dry-points. *Presented by the Artist.*

Spence, Robert. Twenty-five illustrations to George Fox's Journal. A Dance of Death. Archimedes. The Mastmaker's Shop. Penn's Treaty with the Indians. Breton Beggar. Michelangelo. Vanderdecken. The Hanseatic Museum, Bergen. The Carpet Seller. The Block-maker's Wife. The Valkyrie. Cromwell. Tycho Brahe. The Rhine Maidens. Rye; two states. Rye; boat building yard. Mr. Pepys at Gravesend. The Fire of London. Sowing the Dragon's Teeth. Izaak Walton. The End of the Play. Charlemagne. Pepys and King Charles. Sketches; test plate for biting. *Presented by the Artist.* Two additional subjects from Fox's Journal. *Presented by Campbell Dodgson, Esq.*

Engravings.

Cousins, Samuel. J. W. Croker, after Lawrence; mezzotint. Proof before letters (Whitman, 48).

Gribelin, Samuel. Nymphs clipping the wings of Love, after Albano. *Presented by Sydney Vacher, Esq.*

Hodgetts, T. Rev. T. F. Dibdin, after Phillips. Proof before letters.

Holl, W. J. M. W. Turner, R.A. Proof before letters.

Lupton, T. Lord Brougham, after J. Lonsdale; mezzotint; early state with signature.

Reynolds, S. W. Pius VI. receiving the officers of the 12th Light Dragoons in 1794; after Northcote (Whitman, 467). Joseph Bonaparte; open letters proof (Whitman, 33). Mary, Duchess of Gloucester; after L. Gérard (Whitman, 115). Hon. Edward Legge, Bishop of Oxford, after W. Owen (Whitman, 174).

Turner, Charles. William Morgan, F.R.S.; proof before all letters (Whitman, 384). John Randolph (Whitman, 489); earlier than the first state described. Charles Manners Sutton (Whitman, 549); proof before all letters. Captain John Woolmore (Whitman, 626); proof before all letters.

Walker, William. Lord Campbell; after T. A. Woolnoth; unique proof before all letters. The same, with alterations, and line of publication only. Lord John Manners, after R. Buckner; before all letters.

Ward, William James. Sir Charles Morgan, Bart., after W. Owen; proof before letters. *Presented by E. E. Leggatt, Esq.*

Woodcuts.

Pissarro, Esther. Frontispiece to "The Descent of Ishtar," after Diana White; proof in blue. Three women in an oval; after Diana White; unpublished. *Presented by Miss Diana White.* Frontispiece to "The Descent of Ishtar"; proof in black. *Presented by Campbell Dodgson, Esq.*

Swain, Joseph. Eleven proofs of various subjects after Holman Hunt, Keene, Leech, Millais, Sandys and Tenniel.

Lithographs.

Nash, Joseph. Four subjects from the Great Exhibition, viz.:—Waiting for the Queen; proof in black. Russia; unfinished proof in colours. India, No. 7; unfinished proof in colours. Agriculture; proof before letters. Landscape (attributed). *Presented by Henry Van der Bergh, Esq.*

Strang, William, A.R.A. Portrait of E. S. Prior, 1907. *Presented by the Artist.*

Prints arranged to illustrate the Works of Masters.

Barker, T. J. Garibaldi at Caprera; engraving by W. Holl. *Presented by E. E. Leggatt, Esq.*

Davis, R. B. The Royal Cortège in Windsor Park; engraving by F. Bromley, 1840. *Presented by E. E. Leggatt, Esq.*

Stanfield, Clarkson, R.A. Thirty-four engravings of Swiss, French, German and Italian scenery by E. Goodall, R. Wallis, J. T. Willemore, T. Jeavons, R. Brandard, C. Heath, W. Millar and others. *Presented by E. E. Leggatt, Esq.*

Turner, J. M. W., R.A. The Wreck of the "Minotaur"; mezzotint by T. O. Barlow; India proof.

Watts, G. F., R.A. Fifteen colour-printed Photogravures from pictures by. *Presented by Mrs. Watts.*

AMERICAN SCHOOL.

Etchings.

Bicknell, W. H. W. Benjamin Franklin, after Grundmann; private plate; remarque proof on vellum.

Hoffman, Gustave Adolph. Connecticut River. Loggia of St. Augustine Library, Florida; first state. Passing of day; third state. St. Augustine City Gate, Florida. Nocturn. Old saw-mill. Wood interior, Norwich, Conn. Old Bridge with oak trees. Clearing after storm. The White Cloud. A rye-field. Study of a rye-field. Twilight. Home of Porter, the floral painter, Rockville. *Presented by G. A. Hoffman, Esq.*

Prints arranged to illustrate the Works of Masters.

Sargent, John Singer, R.A. Santa Maria della Salute; reproduction in colours.

Japanese School.

Woodcuts.

Utamaro. Three women laughing at a man; one sheet of the five-sheet print "New Year's House-Cleaning," the other four being already in the Department. *Presented by Knighton Baker, Esq.*

Prints arranged to illustrate the Works of Masters.

Sesshiu. Landscape roll; reproduction.

Toba Sojo. Three rolls of caricatures and other subjects: reproductions.

Portraits.

Foreign.

Andrews, William Loring. Etching by T. Johnson. *Presented by Howard Mansfield, Esq.*

Avery, Samuel P. Etching by T. Johnson. *Presented by Howard Mansfield, Esq.*

Bergerac, Cyrano de. Copy of engraving by Le Doyen. *Presented by Sydney Vacher, Esq.*

Blucher, Marshal. Mezzotint after a bust by Bosio.

Buquoy, Charles de Longeval, Comte de. By L. Spirinx. *Presented by Sydney Vacher, Esq.*

Chew, Beverley. Etching by T. Johnson. *Presented by A. Mansfield, Esq.*

Chrystin, N. Engraving by J. Morin after Van Dyck.

Frederick Henry (or Charles Louis?) son of Frederick V. Elector Palatine and Elizabeth of England, as an infant. Engraving by Jacques Granthomme.

Henri II. Anonymous engraving. *Presented by Sydney Vacher, Esq.*

Hoe, Robert. Etching by T. Johnson. *Presented by H. Mansfield, Esq.*

Hutten, Ulrich von. Anonymous woodcut. From the Huth Collection.

The Emperor Leopold. Engraving by Jacoby after Lauch.

Le Camus, J.P., bishop of Belley. Engraving by J. Morin after P. Champaigne.

Louis, Dauphin, son of Louis XIV. Engraving by Landry, 1696. *Presented by Sydney Vacher, Esq.*

Luther, Martin. Engraving by W. Overb after L. Cranach.

Mallet, Alain. By P. Landry, 1683. *Presented by Sydney Vacher, Esq.*

Mistral, Frédéric. Engraving by F. Gaillard. *Presented by Campbell Dodgson, Esq.*

Ronsard, Pierre. Engraved by L. Gauthier. *Presented by Sydney Vacher, Esq.*

Rossini, on his deathbed. Etching by G. Doré.

Tolstoi, Leo. Two portraits, one with two grandchildren Photogravures from photographs by V. Tchertkoff. *Presented by M. Vladimir Tchertkoff.*

Wagner, Richard. Lithograph by Henry de Groux. *Presented by Campbell Dodgson, Esq.*

English.

Acton, Sir John Francis Edward. Stipple engraving by F. Bartolozzi. *Presented by E. E. Leggatt, Esq.*

Ainsworth, W. Harrison. Mezzotint by S. W. Reynolds, jun., after D. Maclise.

Argyll, Col. John Campbell, afterwards Duke of. Engraving by J. Basire after J. Richardson.

Ashurst, W. H. Mezzotint by T. Lupton; proof before all letters.

Ashworth, Henry. Mezzotint by S. W. Reynolds after C. A. Duval. *Presented by E. E. Leggatt, Esq.*

Bromby, Rev. J. H. Mezzotint by T. Lupton after T. Brooks.

Cardigan, the Earl of. Mezzotint by G. Zobel after H. W. Phillips. *Presented by E. E. Leggatt, Esq.*

Charlotte, Princess. Anonymous stipple engraving. *Presented by E. E. Leggatt, Esq.*

Clerk, Sir George, Bart. Mezzotint by T. Lupton after W. Dyce.

Cottenham, Lord. Mezzotint by T. Lupton after H. P. Briggs, R.A.

Crabbe, Rev. George. Mezzotint by S. W. Reynolds after T. Phillips.

Cromwell, Oliver. Woodcut by J. Linton. *Presented by E. E. Leggatt, Esq.*

Gillies, Adam. Mezzotint by T. Lupton after Colvin Smith.

Grey, the Earl. Engraving by J. Brown after R. Scanlan. *Presented by E. E. Leggatt, Esq.*

Hardinge, General the Hon. Sir Arthur Edward. Photogravure. *Presented by the Officer Commanding the Coldstream Guards.*

Kemble, C., as Othello. Coloured lithograph by A. de Valmont.

Marlow, the Rev. Michael. Mezzotint by S. W. Reynolds after T. Phillips.

Mary, Princess. Stipple engraving by T. Cheesman, 1866.

Melville, Viscount. Engraving by H. Meyer after Sir T. Lawrence. *The last four presented by E. E. Leggatt, Esq.*

Paske, Major-Gen. William. Lithograph by C. Walton. *Presented by Major A. J. Paske.*

Peninsula, Heroes of the. Group by C. G. Lewis after J. P. Knight. Coloured.

Rochester, Lawrence Hyde, Earl of. Engraving by Golder after Kneller. *The last two presented by E. E. Leggatt, Esq.*

Rosenheim, Max. Reproduction of a drawing by J. Oppenheimer. *Presented by Maurice Rosenheim, Esq.*

Rothschild, Nathan Mayer. Mezzotint by W. Walker.

Rutland, the Duke of. Mezzotint by W. Walker after R. Buckner. *Presented by E. E. Leggatt, Esq.*

Sandwich, John, Earl of. Engraving by J. K. Sherwin after T. Gainsborough, R.A.

Schreiber, Lady Charlotte. Mezzotint by W. Walker after B. Buckner.

Steele, Gen. the Rt. Hon. Sir Thomas, G.C.B. Photogravure. *Presented by the Officer Commanding the Coldstream Guards.*

Victoria, Queen. Mezzotint by H. Wallis after H. Andrews. *Presented by E. E. Leggatt, Esq.*

Warner, Sir George Frederick. Photogravure. *Presented by Emery Walker, Esq.*

Waterloo, Heroes of. Group by F. Bromley after J. P. Knight. Coloured. *Presented by E. E. Leggatt, Esq.*

Wellington, the Duke of. Engraving by F. Forster after F. Gerard, 1818.

History.

View of the battle-field of Waterloo, 1815. Coloured etching. *Presented by E. E. Leggatt, Esq.*

BOOK-PLATES.

Plates of the Buffalo Library; the Middlesex County Historical Society, New Haven Colony Historical Society, and F. W. Davis, three woodcuts by W. F. Hopson; Eleanor W. Plaw;

E. J. Ward; William Shaw Ward. *All presented by Miss Dorothy Furman.*

Plate of J. Pierpont Morgan; two impressions, one in red. *Presented by C. H. Read, Esq., P.S.A.*

Seven plates designed and engraved on wood by Fritz Endell, including plates of Amelia G. Chatillon, Annunziata Cortesi, Mary Endell (two impressions, one in colours), Carl Hammelehle, and J. Kirkman. *Presented by Campbell Dodgson, Esq.*

Collections and Sets.

Twenty-five coloured reproductions of paintings by Old Masters. *Presented by the Medici Society, Ltd.*

Forty-five photogravures from pictures in the Royal Gallery, Dresden.

Forty-seven proofs, many of them touched by the artists, of line-engravings on steel after Birket Foster and others by E. S. Brandard, S. Bradshaw, J. J. Crew, J. Godfrey, T. Heawood, J. Saddler, J. Stephenson, A. Willmore, and F. Joubert.

Twenty-nine photographs of old buildings in Leicestershire. *Presented by George M. Henton, Esq.*

Books of Prints and Books of Reference.

American Painting, Masterpieces of.

Apuleius. Ain Schon Lieblich Gedichte Lucii Apuleii von ainem gulden Esel. Augsburg, 1538. With woodcuts by Schäufelein and another master. *Presented by Campbell Dodgson, Esq.*

Bassermann-Jordan, E. Die Gemälde-Galerie im Klg. Schlosse, Schleissheim.

Baur, J. W. Iconographia; Augsburg, 1670. With etchings by Melchior Küsell.

Bone, Muirhead. Fifty drawings of Glasgow. Special edition, with three extra plates. *Presented by Campbell Dodgson, Esq.*

Conder, Josiah. Paintings and studies by Kawanabe Kyosao. *Presented by Laurence Binyon, Esq.*

Delteil, Loys. Le Peintre-Graveur Illustré; tome septième. *Presented by M. Loys Delteil.*

Dessins de Maîtres, Société de Reproduction des. 2me année.

Einzel-Holzschnitte in der Staatsbibliothek zu München. Band II.

Farquhar, Helen. The Portraiture of our Stuart Monarchs on Coins and Medals. Part II. *Presented by Miss Helen Farquhar.*

Französische Kunst des 18 Jahrhunderts, Berlin, 1910.

Groot, C. Hofstede de. Jan Vermeer and Karel Fabritius.

Guérin, Marcel. J. L. Forain, Lithographe. Catalogue raisonné.

Guiffrey, J. La Collection Chauchard.

Handzeichnungen Alter Meister im Städelschen Kunstinstitut zu Frankfurt-a-M.

Harunobu, Koriusai, Shunsho. Estampes Japonaises exposées en 1910.

Incunabeln des Formschnitts zu Eichstätt.

Lawrence, Sir Thomas, P.R.A. Engravings from the choicest works of.

Lawrence, H. V., and Dighton, B. L. French line-engravings of the eighteenth century.

Rembrandt, Original drawings by. Fourth series, Nos. 1–100.

Rembrandt, Les Cuivres originaux de. Modern impressions; special edition on Japanese paper. Presented by M. Alvin Beaumont.

Ricci, Corrado. Piero della Francesca.

Richter, J. P. The Mond Collection 2 vol., with portfolio of plates.

Sanders, Harry. The Art Examplar, 1860; large paper copy, extra-illustrated.

Schreiber, W. L. Christus am Kreuz. 51 facsimiles.

Solis, Virgilius. Biblische Figuren. Frankfurt am Main, 1560; the first edition. From the Huth Collection.

Stryienski, Casimir. Charles Landelle. *Presented by the Author.*

Tajima, S. Masterpieces selected from the fine arts of the Far East. 9 vol,. with a history of Japanese pictorial art by Seigai Omura in separate volume. Masterpieces selected from the Ukiyoyé school. Vols. IV. and V.

Tarocchi, Die. 2nd extraordinary publication of the Graphische Gesellschaft.

Thames, Panorama from London to Richmond. Coloured aquatint.

Sidney Colvin.

Department of Egyptian and Assyrian Antiquities.

I.—*Arrangement, Cataloguing, etc.*

Egyptian Antiquities:—

The general re-arrangement of the Egyptian Collections has been continued, and all the important objects acquired during the year have been incorporated and exhibited.

The washing of the hard stone monuments, and the careful cleaning of those in limestone and sandstone, have been continued.

The labelling of the exhibits, and the restoration of the old collection numbers, which are important for purposes of identification, have been continued.

The sarcophagus of Qem-Ptah has been fixed on a brick base faced with granite.

A number of stelæ have been treated for efflorescence of salt, and dried and re-framed.

Seventy-four Caen stone plinths, pedestals, and other mounts have been worked and prepared; eleven granite plinths have been fitted and fixed; one hundred and sixty-nine plinths in alabaster, or marble, have been prepared and polished, and stone and bronze figures of gods, plaques, etc., have been mounted upon them; five hundred and eighty-six plaques, tablets, plinths, pedestals, and mounts of various kinds, stands for vases, etc., have been made, and objects mounted upon them.

The collections of alabaster vessels, glazed pottery and porcelain, stone vessels, etc., which had to be withdrawn in connection with the work on the new building, have been washed, cleaned, and replaced in the Wall-Cases in the Fourth Egyptian Room.

Thirty-six frames for Egyptian and Coptic stelæ have been made, and glazed, and stelæ fixed in them. Twelve mahogany labels have been prepared, painted and fixed.

Seventy-one figures in stone and bronze, stelæ, earthenware vessels, etc., have been cleaned and repaired; and four inscribed papyri have been mounted in glazed frames.

Eleven hundred and seventy casts of the bases of scarabs have been made in connection with the Catalogue of the Scarabs which is now being prepared, and the scarabs from which they were made have been cleaned and remounted.

Two hundred and forty miscellaneous objects in porcelain, wood, etc., have been mounted on cloth-covered mounts.

450 labels have been drafted and painted on plinths, frames, etc., and numbers have been painted on 2,170 objects.

560 objects of the old collections have been identified with the Registers, and broken and missing numbers have been restored.

The Greenfield Papyrus has been arranged and photographed; and the fragments of the Medical Papyrus have been arranged, and re-framed.

About 1,763 miscellaneous objects have been registered, or re-registered, and about 3,000 slips of Register Numbers have been written.

Seventy-two stelæ and other objects have been copied for publication, and drawings of the sculptured portions of them have been made ready for the insertion of the texts.

Works in Progress.

1. *Coptic MSS.*—Papyrus Or. 6783 has been copied, 14 sheets have been passed for press, and 16 sheets have been read in proof.

2. *Catalogue of Scarabs.*—Catalogue slips for 680 scarabs have been written, and 13 sheets have been read and passed for press.

3. *Egyptian Texts.*—Material sufficient for about 40 plates has been copied, and Part II. is being prepared for publication.

ASSYRIAN ANTIQUITIES :—

The general re-arrangement of the unexhibited section of the Babylonian and Assyrian Collections has been continued, and the washing and cleaning of the bas-reliefs has been continued. The replacing of the glass in the Galleries is in progress.

The verification of several collections arranged temporarily in the Basement has been completed, the contents of the boxes have been checked, and worn or broken numbers restored. The checking of the tablets of the Kûyûnjik Collection with the Registers is in progress.

About 669 tablets and fragments have been cleaned and repaired, and several "case-tablets" have been opened; 1,960 tablets have been placed in wool-lined boxes; 119 fragments of tablets have been re-joined; 15 cylinder-seals and two Boundary Stones have been mounted; casts of 61 cylinder-seals, cones, etc., have been made; 1,890 registration numbers have been painted on tablets and other objects, etc.

About 263 tablets, etc., have been registered, and the slip index to published Texts has been continued.

About 130 texts from tablets, Boundary Stones, etc., have been copied and collated, a large number of tablets have been examined, and selections made for publication.

Works in Progress.

1. *Babylonian Boundary Stones.*—26 plates of texts have been lithographed. About 150 pages of translations, descriptive matter, etc., have been read in proof.

2. *Cuneiform Texts.*—Material for two new Parts is being collected and copied.

3. *Kuyunjik Catalogue* (*Supplement*).—About 1,225 Catalogue slips have been written.

Publications.

1. "Egyptian Texts" (Early Empire). Part I.
2. "Cuneiform Texts." Part XVI. (Reprint.)
3. "Cuneiform Texts" (Omen Series). Parts XXX. and XXXI.

Students.—About 3,110 visits have been made to the Department by students and others; and 18,027 objects have been issued for the use of students.

Personally conducted Parties.—Fifty-two parties have been personally conducted through the Department by members of the staff, the number of persons being about 1,493, including pupil-teachers and others from schools.

II.—*Acquisitions.*

i.—EGYPTIAN:—

i.—1. A quartzite sandstone seated figure of Sen-Mut, scribe and architect who flourished at Thebes under the reign of Hātshepsut, Queen of Egypt, about B.C. 1550. Very fine work, and a fine example of the best class of commemorative statues. Sen-Mut was the builder of the temple "Tcheser-Tcheseru" (*i.e.*, "Most Holy"), at Dêr al-Bahari. From Thebes.

2. A hard brown stone figure of Pes-shu-per, an official of very high rank, who flourished at Thebes under the reign of one of the Queens Amenartās, about B.C. 630. He was employed in carrying out the restorations of temples at Thebes, and was a temple functionary of great importance. This figure is valuable artistically because of its archaïstic characteristics. From Thebes.

3. A painted limestone stele of Tuu, an officer of very high rank, who flourished in the reign of Thothmes IV., King of Egypt, about B.C. 1500. The relief work is very delicate. This is a good example of a rare class of sepulchral monument, and the period to which it belongs, which is indicated by the royal name on it, adds to its importance. From Thebes. XVIIIth dynasty.

4. A stone stele on which is a representation of the worship of Amen-ḥetep I., king of Egypt, about B.C. 1600, and his Queen Aāhmes-nefert-ari. Fine example. Stelæ of this reign are uncommon. From Thebes. XVIIIth dynasty.

ii.—1. A massive stone bowl, with ears, which originally stood on a pedestal in the great hall of the Temple of Ptaḥ at Memphis, and contained the wine for use during festivals commemorative of the dead. XXth dynasty. B.C. 1100.

2, 3. Two bronze kneeling figures of a king; they were found in a building which was restored by Tirhâkâh, and they probably represent this king. XXVth dynasty. About B.C. 670. From Thebes.

4. Bronze figure of the god Harpokrates, wearing the triple crown. XXVIth dynasty. From Thebes.

5. Three small bronze figures of mythological beings, which probably formed the ornaments of a toilet box. Ptolemaïc Period.

6. A glazed and painted earthenware vase, or bottle, of very unusual shape and texture. 3rd century A.D. (?) From Lower Nubia.

iii.—1. A massive limestone door of a mastabah tomb of an official who flourished in the reign of Psammetichus III., king of Egypt about B.C. 528. This object is of considerable interest, for it is one of the very few monuments bearing the cartouches of this king which are known to exist, and on it are sculptured the figure and cartouche of Queen Ānkhnes-neferabrā. The reign of Psammetichus III. was short (six months), and this door proves that in Memphis, at least, he was regarded as a lawful occupant of the throne of Egypt. XXVIth dynasty. From Gîzah.

2—301. An important collection of three hundred scarabs, made of white glazed steatite, on the bases of which are cut representations of hunting scenes, and symbols and devices, probably of a magical character. They were all found in the Eastern Delta, and date from the period of the occupation of Egypt by the Hyksos, whose peculiar treatment of the scarab they well illustrate. About B.C. 1800–1600.

302. A fine bronze figure of the god Harpokrates, wearing the triple crown, with plumes, horns, uræi, etc. From Bubastis. XXIInd dynasty.

303. A figure of the Jackal god Anpu (Anubis), in bronze, with small figures of the two jackal gods of the South and North. XXVIth dynasty.

304. A bronze figure of a king (Tirhâkâh?) kneeling, and presenting a figure of Maāt (*i.e.*, Truth) to some god or goddess. Rare. XXVIth dynasty.

305. A bronze figure of the goddess Hāt-mehit, in the form of a woman, and wearing on her head the fish which was the sacred symbol of the nome of Mendes. She was the female counterpart of Ba-neb-Ṭeṭ, the chief god of Mendes, and was, in the late period, identified with Isis; she was the "Mother" of Mendes, and in the local cult she appears as the mother of Harpokrates. XXIInd dynasty.

306. Bronze disk of a mirror on which are cut in outline figures of the god Bes, the deceased adoring the goddess Mut, and the Eye of Rā, or of Horus. Disks of mirrors ornamented in this manner are very uncommon. XXth dynasty.

307. A stone vase in the form of an ape. Predynastic Period.

308, 309. Two large draughtsmen, in glazed porcelain. Said to come from Lower Nubia. Period doubtful.

310. A large porcelain symbol of "life" (ānkh), inscribed with the titles and cartouches of Tirhâkâh, king of Egypt and Nubia, about B.C. 665. This object is probably unique. From Thebes.

311. A two-headed sandstone sepulchral monument, of a very rare class; it was probably used as a term. Period doubtful. From Erment.

312. A massive black granite ushabti figure of Heh. Fine example. XVIIIth dynasty. From Thebes.

313. A stone with several facets, on each of which is cut a letter. Probably used in games of chance. From Thebes.

314. A long flint instrument or tool, the exact use of which is unknown. Predynastic or Archaic Period. From Nakâdah.

315. A stone cippus of Horus, found in a tomb of the late period at Thebes. It was placed there to prevent, by means of the magical powers which it was believed to possess, insects and reptiles from attacking the dead. After the XXVIth dynasty.

316. Rectangular painted stone shrine of the god Seker. On the front of it are sculptured a figure of the Hawk-god Seker, mummified, two winged disks, representing forms of the Sun-god, the serpents of the South and North, etc. Within the shrine is a mummified hawk, enveloped in a painted cartonnage case. XXIInd dynasty. From Sakkârah.

317. A group of four wooden soldiers, each carrying a bag of food on his back and a long, flat spear-head and cudgel in his hand. XIth dynasty. From Asyût.

318, 319. Two large fragments of the alabaster coffin of Rameses IV, on which are cut scenes and texts from the Guide to the Other World called "Am-Tuat." From the king's tomb in Bibân al-Mulúk. XXth dynasty.

320. Portion of a large painted slab, either from the wall of a tomb, or from the side of a sarcophagus, on which are cut in low relief figures of ducks, and other water-fowl, the *teb* bird, the lizard, etc. The scene represented is a part of a papyrus swamp. XVIIIth dynasty.

321. Stone sepulchral stele, on which is cut in relief the model of an ancient mastabah door, with frame-work, etc.

322. Limestone capital of a pillar in an ancient Egyptian temple, which was hollowed out and used as a font in a Coptic church. From Sakkârah. VIth century A.D.

323. Limestone Coptic gravestone ornamented with a cross, flower, and a leaf-work border.

324. Limestone Coptic gravestone, on which is sculptured a figure of a man, within a leaf-work border. The name of the deceased appears to have been erased.

325. Limestone Coptic gravestone ornamented with a dove, a pediment, a wreath, crosses, etc. Inscribed ЄIC ΘЄOC.

326. Limestone Coptic gravestone made for Apa Dôrôthe, and ornamented with a wreath, a cross within a circle, etc. There is on it also a roughly sculptured figure of the deceased.

327. Limestone Coptic gravestone of Isaac, an official in the Monastery of Saint Jeremiah at Sakkârah, ornamented with an elaborate foliated design.

328. Limestone Coptic gravestone of Victor, a monk, ornamented with a pediment, cross, etc.

329. Limestone Coptic gravestone of Eulogius, a priest, with an inscription in Greek.

330. Limestone Coptic gravestone, with a Greek inscription, and ornamented with doves, etc., sculptured in relief.

331. Limestone Coptic gravestone, sculptured with linear designs and a foliated border; a space for an inscription is left blank.

332. Limestone Coptic gravestone, ornamented with a pediment, palm branches, crosses, etc. On it appear the letters Alpha and Omega, and it was set up in memory of Orion, a monk.

333. Limestone Coptic gravestone of Tahôm, a monk, sculptured with the figure of a man, and with a border of vine leaves, etc.

334. Limestone Coptic gravestone, sculptured with figures of doves, pillars, foliated border, etc.

335. Limestone capital of a pillar, carved and decorated with wreaths, vine-leaves, etc.

336. Architectural fragment, in limestone, on which is sculptured the figure of a woman reclining on a dolphin beneath a pediment.

337. Architectural fragment, in limestone, on which are sculptured figures of Sarapis and Isis, with human heads and bodies of serpents.

338. A group of architectural fragments, on which are sculptured grapes, vine-leaves, crosses, foliated patterns, etc.

Nos. 326-338 were found among the ruins of the famous Monastery of Saint Jeremiah at Sakkârah, which has been excavated during the last few years by the Egyptian Government. They all belong to the period which lies between 700 and 1100 A.D., and they illustrate Coptic funerary Art in one of its most interesting forms, and show the influence of Byzantine artists and sculptors.

iv.—1. A limestone altar inscribed in the Meroïtic character with the name of Qeren-akrêrê-Malewitar, an "envoy of Rome," who flourished in the reign of Queen Candace, about B.C. 25. From the Island of Faras, in Nubia.

ii.—ASSYRIAN:—

i.—1. A portion of a gate-socket, or boulder, bearing an inscription of Ur-gur, King of Ur, about B.C. 2500, on which is cut, in archaic characters, a record of the dedication of a temple to the goddess Ninlil. From Nippur.

2. Gate-socket of Gimil-Sin, King of Ur. About B.C. 2400.

3. Portion of a limestone slab on which is cut an inscription of Gimil-Sin, King of Ur, about B.C. 2500. The text records the dedication of a temple at the time when he built the Wall, or Fortification of the West, called "Murîk-Tidnim," in the fourth year of his reign. It is unusual to

find votive inscriptions of this kind containing references to events by which they may be dated.

4. Green jasper cylinder-seal of a high official, who flourished in the reign of Bur-Sin, King of Ur. About B.C. 2400.

5. Flat agate seal, perforated, on which is cut a dedicatory text to Adad, the Weather-god, by Kurigalzu, King of Babylon. About B.C. 1400.

6–38. A collection of thirty-three cylinder-seals made of lapis-lazuli, crystal, chalcedony, sard, hæmatite, etc., and dating from the Early Babylonian Period to the Persian Period. Of special interest among these are: two seals in lapis-lazuli, on which are cut scenes representing heroes in conflict with animals; a seal on which is cut a scene representing a worshipper pouring out a libation before his god; and a seal made of serpentine stone, on which is cut a scene representing a bird-like deity being led captive into the presence of the River-god.

39. An early Babylonian clay plaque stamped with a scene representing the mythical hero Gilgamesh in conflict with a lion. About B.C. 2400.

40. An early Babylonian clay plaque stamped with the figure of a horned dragon. About B.C. 2400.

41. Clay plaque stamped with figures of two oxen. From Abû Habbah.

42. Clay plaque stamped with the representation of a hunting scene. From Abû Habbah.

43. Archaic votive figure of a nude goddess, holding her breasts in her hands. Perhaps the prototype of the "Syrian Goddess." From Abû Habbah.

44. Upper portion of a Babylonian votive clay figure of a goddess, wearing a low headdress, necklaces, and earrings. From Abû Habbah.

45. A very early Sumerian votive figure in bronze; the upper part is in the form of the bust of a goddess, and the lower part is conical, or nail-shaped. It was found in the lowest stratum of the foundations of the buildings at Tell Lô (Lagash), and formed part of a foundation deposit.

46. Head of a bronze adze, or perhaps of a battle axe. Not later, probably, than B.C. 2000. From Lower Babylonia.

47. Bronze cover of a vessel for unguents(?), surmounted by the figure of a ram. From Lower Babylonia.

48. Small bronze pendant, in the form of some horned animal (ibex ?).

49. Clay head of a demon, which was probably worn as a pendant on a necklace. From Abú Habbah.

50. A stone bowl, on the outside of which a bold leaf-pattern is cut, in high relief.

51. A portion of a clay bowl, on the outside of which is inscribed a text in archaic Babylonian characters; only the ends of a few lines are preserved.

52–99. A collection of forty-eight very fine tablets inscribed with accounts and temple-records of the period of the Dynasty of Ur; these tablets represent a selection made from many hundreds recently discovered at Drehem, near Nippur. About B.C. 2400.

100–104. A group of five tablets inscribed with accounts referring to business connected with the temples in Babylonia. From Tell Lô. About B.C. 2400.

105–829. A fine collection of Babylonian tablets. The greater number of these are inscribed with accounts, copies of business documents, agreements, etc., but the collection also includes an important group of letters of the period of the First Dynasty of Babylon, and also several interesting Neo-Babylonian texts. About B.C. 2500. From Abû Habbah.

830–1059. A collection of tablets, inscribed with lists of produce, contracts, business documents, etc. Neo-Babylonian Period. From Abú Habbah.

ii.—1. Fragment of an early Assyrian tablet, inscribed with a text arranged in sections, and referring most probably to offerings.

2. Fine Assyrian tablet, nearly complete, inscribed with a series of incantations and medical prescriptions for the sick.

3. Upper part of a large Assyrian tablet inscribed with prayers and incantations.

4–12. Nine Assyrian letters and contract tablets.

13–26. A miscellaneous collection of small objects, Greek, Egyptian, Phœnician, etc., which were found at Babylon. These are:

A brown glazed porcelain figure of Osiris, of the Ptolemaïc Period.

A small bronze seated figure of Zeus, of the Græco-Roman Period.

Ten small glass bottles, for holding scents and unguents.

A gold earring. Period uncertain.

A gold frog, which formed part of an earring, with bead-work decoration.

27. Terra-cotta bowl, on the outside of which are drawings in outline of two human beings and an animal. Close to these are legends in the dialect of the Mandaites, who lived near the Tigris. From Tell Ibrahîm.

28–32. Five terra-cotta bowls, on the insides of which are written, in black ink, series of incantations and magical formulas, in Mandaïtic, which were intended to drive away sicknesses and evil spirits from those who drank from them. From Tell Ibrahîm.

33. Terra-cotta bowl on the inside of which is drawn, in black ink, the magical emblem formed by a six-rayed star and seven small circles. The inside portion round this emblem is divided into three parts; in one of these is a figure, in outline, of one of the Patriarchs, and in the other two are written magical formulas in the Hebrew square character. From Tell Ibrahîm.

34. Terra-cotta bowl inscribed on the inside with the text of a series of magical formulas and prayers for protection against evil spirits in the Hebrew square character. From Tell Ibrahîm.

35. A large terra-cotta bowl (diameter 12½ in.), which was probably used for ceremonial purposes in public worship. On the upper portion of the inside are drawn, in black ink, figures of two kings, or royal personages, or priests, wearing wigs and tunics similar to those worn by priests in ancient Egypt. By the sides of these figures are series of magical prayers, etc., in the Hebrew square character. From Tell Ibrahîm.

iii.—1. A Babylonian letter, of the late Assyrian Period. From Kûyûnjik.

2. A contract tablet, written in the Neo-Babylonian character, and dealiug with the transfer of a piece of land. On the edge are some peculiar markings, the meaning of which is not known. From Kûyûnjik.

iii.—HIMYARITIC:—

1. A gold ring, with an amber bezel, on which are cut as an amulet four hands.

2. Bronze ring, on the bezel of which is cut a Himyaritic name. About B.C. 400.

3. Silver ring, with a head in sunk relief, and a portion of a name.

4. A circular, pointed, oval seal, on the base of which is cut a gryphon.

5. A circular seal, on the base of which is cut a representation of a hunting scene, with ostriches, etc.

These five objects were found at Sanaa, in Southern Arabia, and belong to the period B.C. 500–300.

III.—*Presents.*

i.—1. A pair of grey granite pedestals.
Presented by the Rev. Bromley Moore.

ii.—2. A green glazed ushabti figure, on which is inscribed a version of the Sixth Chapter of the Book of the Dead, according to the Saïte Recension. XXVIth dynasty.
Presented by E. Towry Whyte, M.A., F.S.A.

iii.—1. Limestone slab, with a coloured relief of a prince. XIth dynasty.

2. A series of fragments of bas-reliefs, some bearing hieratic *graffiti*. XIth dynasty.

3. Portion of a sandstone figure of a goddess. XIth dynasty.

4. A group of wooden figures from a Royal tomb. XIth dynasty.

5. A group of votive inscriptions. XVIIIth dynasty.

6. A group of specimens of blue glazed ware, and black painted pottery. XVIIIth dynasty.

7–250. A collection of hieratic, demotic, and Coptic ostraka.

Nos. 1–250 are from Dêr al-Bahari.

251. Portion of a figure of Nekhen, an official, holding an inscribed tablet. From Pithom. XVIIIth dynasty.

252. A collection of specimen fragments of blue glazed pottery. From Sinai.

253. A collection of blue glazed fragments and votive heads, human and animal. From Naucratis.

254. Portion of a figure of Baal, horned. About B.C. 600. From Behnesa.

256. A group of lamps, comb, fragments, etc., of various periods. From Atfiyah.

257. A stone mould for making earthenware *ushabtiu* figures.

258. Gilt cartonnage head from the casing of a mummy of the Græco-Roman Period.

259, 260. Two earthenware pots whereon inscriptions have been written in demotic, in black ink. Roman Period.

261–263. Three alabaster vases. Period doubtful.

264. A scarab. XIIth dynasty.

265–282. A collection of eighteen miscellaneous *ushabtiu* figures, belonging chiefly to the XXth and XXIst dynasties.

Nos. 256–282 were obtained from various sites in the Delta.

Presented by the Egypt Exploration Fund.

iv.—1. Two pan-pots, black and red. From Abydos.
Presented by the Egypt Exploration Fund.

v.—1. Earthenware lamp and stand. From Carthage.
Presented by W. Barclay Squire, M.A., F.S.A.

vi.—1. "Historical Studies," 4to.
Presented by Prof. Flinders Petrie.

vii.—1. A large fragment of a scarab made by order of Amen-hetep III., King of Egypt, about B.C. 1450, to record the arrival in Egypt of the Princess Gilukhipa, together with her escort of three hundred and seventeen persons. XVIIIth dynasty. *Presented by Monsieur A. de Pass.*

viii.—1. A piece of blue bead-work from the covering of a mummy. XXVIth dynasty.
Presented by Miss E. M. Baker.

ix.—1. Upper portion of a funerary cippus bearing parts of two lines of a Palmyrene inscription.
Presented by Dr. Frank Corner.

E. A. Wallis Budge.

Department of Greek and Roman Antiquities.

I.—*Arrangement.*

The Sculpture Galleries.—The reconstruction of the order of the Nereid Monument, begun last year, has been completed; the tiles and coffers of the roof have been restored and are now re-mounted in their proper positions with fragments of the cornice and lions' heads previously unexhibited.

The re-arrangement of the Mausoleum Room has been continued; the exhibits from Priene and Halicarnassus have been concentrated to leave the bays on each side of the staircase vacant for the exhibition of architectural fragments, and one of the marble lions has been re-mounted. Three large sarcophagi have been brought out from the Mausoleum Annexe and mounted between the colossal busts at the head of the staircase, at the North end of the Mausoleum Room.

The grave relief of Archagora has been restored and set up in the Phigaleian Room; the newly-acquired bronze chariot has been placed in a glass case in the Archaic Room. A series of the votive sculptures from the temenos of Demeter at Cnidos, have been arranged on shelves in the Ephesus Ante-Room, on each side of the statue of Demeter.

The Vase Rooms and Upper Galleries.—The arrangement of the unexhibited portion of the Vase Collections has been undertaken, the vases being arranged by groups and shapes in the cupboards of the various rooms. In the Second Room, a complete re-arrangement of the Proto-Corinthian and Rhodian sections has been made; and in all the rooms the vases have been sponged over and the cases cleaned internally.

In the Bronze Room, the head from Meroe has been set up, the archaic Greek bronzes have been re-arranged, and cupboards have been fitted with shelves on which unexhibited specimens have been arranged. The fittings of several cases in the Room of Greek and Roman Life have been modified; in the Gold Ornament Room, a re-arrangement has been made in accordance with the Catalogue of Jewellery, and many fittings have been re-covered with velvet; in the Terra-cotta Room, the contents of the drawers beneath the cases have been arranged according to catalogue or registration numbers.

The publication of the Catalogue of Jewellery was completed. Of the first volume of the Catalogue of Vases, the Cypriote section was corrected in page, and the Italic section set up in type; the manuscript of the Corinthian, Rhodian, and Naucratite sections was completed. Progress was made with the Catalogue of Lamps, with the second part of Volume IV. of the Greek Inscriptions, and with the revision of the Departmental Guide. A beginning was made with a supplementary volume of the Catalogue of Vases, and with a Guide to the Gallery of Casts.

Moulds have been made of the bronze head from Meroe; of five slabs of the Frieze of the Parthenon, and of the head and legs of the "Theseus," and of two marble heads. Nine pieces of sculpture, two Lycian inscriptions and 34 cinerary urns were mounted on stone pedestals; one silver object, 177 bronzes, 17 alabastra, 9 terra-cottas, 24 lamps and 47 vases were mounted. 155 objects were registered, 2,764 were numbered, and 368 labels written.

The number of visits to the Departmental Library and Students' Room for purposes of research was 609; there were 916 other visits to the Staff for enquiry or on departmental business, and 2,301 attendances of students of art and architecture in the Sculpture Galleries.

II.—*Acquisitions.*

I.—*Sculpture in Stone and Marble.*

1. Marble Relief: a gravestone with a group of a seated woman, Archagora, clasping the hand of a bearded man standing on the left; between the two a second woman stands in the background, looking to the front. The relief is bordered by pilasters, with a low pediment surmounted by a Sphinx seated to the front and showing both flanks. The right-hand corner of the pediment, the lower drapery with one foot of the man, and one foot and the nose of the woman are restored. On the architrave is an inscription: **ΑΡΧΑΓΟΡΑΙ . . . . . ΘΥΓΑΤΗΡ.**

Height 67 in., width 36½ in. From Attica. Somewhat hasty in execution, but of good period and unusual size. Fourth Century B.C.

2. Marble Relief from a Roman sarcophagus, representing a marriage ceremony. The bride and bridegroom join hands before the pronuba; behind the bride stand her father and Mars resting on a spear; on the right are Victory crowning the bridegroom and Fortuna. Length 19½ in.

3. Upper part of a Marble Stele with a relief in the usual architectonic frame; a beardless head with draped bust. Late and rough style. On the shaft below is inscribed: **ΝΕΙΚΕΙC. . . .** Height 14½ in.

4. Marble fragment of egg-and-tongue moulding. Length 7½ in. From the Acropolis, Athens. *Presented by Mrs. Robert Chadwick.*

5. Limestone head of a female statuette, wearing a peaked cap; Cypriote style. From Naucratis. *Presented by the Egypt Exploration Fund.*

II.—*Ivory.*

6. Relief of Athena with helmet, spear, shield, and serpent. A characteristic example of late Græco-Roman work. Height 5½ in.

III.—*Gems.*

7. Sard scarabaeoid: on the base an intaglio of a seated hound; good Greek work of the late Sixth Century B.C. The convex surface has been used later for a Græco-Persian design of a mounted Persian pursuing a biga, in which are two other Persians, one an archer. From Mesopotamia.

IV.—*Gold.*

8. Plaque stamped with bees, concentric circles, and rows of bars, and showing affinity with the plaques of Ephesus and Cameiros. From Rhodes. Length 1 in. Seventh Century B.C.

9. Crescent earring, with blue glass beads around the outer margin. From Cyprus.

V.—*Silver.*

10. Model, probably votive, of a temple-key, of the primitive type inserted through the door to push back the bolt on the inside. Such models seem hitherto not to be known, though one actual key has been found (see *Berliner Akad. Sitzungsberichte*, 1908, pl. 1). Formerly in the Cesnola Collection. Length 4½ in.

VI.—*Bronze.*

11. Colossal head of Augustus in the early prime of life, from a portrait statue. There can be no doubt that the bronze represents a member of the Julio-Claudian house, and the name of Germanicus was one of the first to be suggested. It is now, however, generally agreed that the subject is Augustus. In perfect preservation; the eye-brows fringed, the eyes inlaid with glass and alabaster.

Height 18½ in. *Liverpool Annals of Archæology*, IV., pp. 66–71, pl. 12–16. Found at Meroé in the Sudan by Prof. John Garstang, 1910. *Acquired through the generosity of the Sudan Excavations Committee, in consideration of a gift of one thousand guineas towards the Committee's further excavations made by the National Art-Collections Fund.*

12. (*a*) Bronze-plated Chariot with decoration of bands of palmettes. The plates have been mounted on a modern core of wood; some parts of the plating and the tyres of the wheels are restored. Length 52 in. Also the terminal of the chariot pole in the form of a fragmentary lion's head. Sixth Century B.C. (*b*) Whip-handle found near the chariot. Length 11 in.

Found near Orvieto.

13. Fragment from a sacrificial relief, representing an attendant, almost in the round, wreathed and girded, bending forward as if holding the victim. A remarkable Roman work of the late First Century A.D. Height 6 in.

14. Statuette of a dwarf undergoing the punishment of the cangue. Height $1\frac{3}{4}$ in. Style somewhat rough; cf. Babelon and Blanchet, No. 510.

15. Circular Stamp with the inscription ΑΛΕΞΑΝΔΡΟΥ+ between flanged edges, and a central pivot which probably fitted into a handle; used apparently for marking an irregular surface, such as a loaf. Examples of this form are rare; cf. *C.I.L.*, IX, 6083 (107) and X_2, 8059 (61) and p. 915.

16. Helmet of an early Italic shape, well preserved. From Ancona.

17. Strainer with two handles terminating in dogs' heads.

18. Fibula of Hallstadt period, with four spirals and the central boss.

19. Fibula with broad knob in centre of bow and incised geometric design.

20. Fibula, leech type, end of bow terminating in swan's head.

21. Fibula as last, with broad disk below swan's head.

22. (*a*) Oval implement with tang and rivet; length 5 in. (*b*) Spike; length 4 in. From Crete. *Presented by H. R. Hall, Esq.*

VII.—*Iron.*

23. Two Stili, the upper ends plated with copper, the stems bound with copper bands. Length $4\frac{3}{4}$ and $4\frac{1}{2}$ in.

VIII.—*Terra-cotta.*

24. Statuette of an aged nurse holding a young boy in her arms; a good example of the type (cf. Winter, *Typen*, II., p. 461, No. 7).

25. Statuette of an enthroned goddess, wearing a calathos and holding a young boy in her arms: his body is tightly swaddled, his head separately inserted and moveable.
From Thebes. Height $13\frac{1}{2}$ in.

26. (*a*) Horseman decorated with stripes of bright red and black paint; Cypriote style. (*b*) Fragment of group of Satyr carrying Eros on his back. Height $1\frac{3}{4}$ in. (*c*) Stag's head, fragmentary. From Naucratis. *Presented by the Egypt Exploration Fund.*

IX.—*Pottery.*

27. Geometric Pyxis; the body covered with fringed wheels, zigzags, and rectangles, the lid surmounted by four statuettes of horses. Diam. $12\frac{3}{4}$ in.

28. Geometric Pyxis as last; two horses on lid. Diam. 9½ in.

29. Black-figured Oinochoë, with design in a panel of a Maenad riding on a bull and carrying a panther. An unusual combination of two Dionysiac types.

30. Vase in form of cock, with wreath round its neck. From Acarnania. Height 6¾ in.

31. Two Lamps with erotic reliefs. *Presented by S. B. Burton, Esq.*

32. (*a*) Beaked jug with band of incised decoration and a small vase of similar style (Early Minoan period, third division). (*b*) A series of fragments of various fabrics. (*c*) Steatite Pyxis with lid, a similar lid, and a fragment of a stone rim. (*d*) Four obsidian flakes.

From Crete. *Presented by H. R. Hall, Esq.*

33. (*a*) Bowl of Roman period decorated internally with painted geometric patterns, externally with moulded festoons. (*b*) Fragments of various early fabrics, and a series of inscribed sherds.

From Naucratis. *Presented by the Egypt Exploration Fund.*

X.—*Wood.*

34. Two Combs from Oxyrhynchus. *Presented by the Egypt Exploration Fund.*

XI.—*Plaster.*

35. Cast of relief at Dresden, representing a butcher's shop.

A. H. Smith.

Department of British and Mediæval Antiquities and Ethnography.

I.—*Arrangement, Cataloguing, etc.*

Prehistoric Section.—Eighty-four glazed drawers accessible to the public have been fitted below three table-cases in the Prehistoric Room, and several have been filled with palæolithic and neolithic specimens from England, and series of French and Belgian cave specimens of the later palæolithic period. The labelling of the Greenwell Collection in the Central Saloon has been continued. Two wall-cases have been cleared and painted.

Romano-British Section. — The collection exhibited in drawers accessible to the public has been periodically overhauled.

Mediæval Room.—Minor re-arrangements have been necessitated by additions to the series of church-plate and alabaster carvings; and permanent labels added.

Gold Ornament Room.—The Franks Collection of finger-rings has been re-arranged in accordance with the Catalogue.

Asiatic Saloon.—Progress has been made with the permanent labelling of the Chinese porcelain; sections of porcelain have been re-arranged; and a new table-case filled with Corean pottery and Japanese porcelain.

Ethnographical Gallery.—The North American Indian dresses have been cleaned and progress made with the labelling and re-arrangement of the North-west Coast Collection. Eskimo specimens have been exhibited in six drawers accessible to the public, and Abyssinian and Sudanese in two wall-cases. The series of East African pottery has been re-arranged, West African ornaments and gold weights exhibited on tablets, and permanent labels added in the African section. The Borneo section and the case of Japanese armour have been cleaned.

American Room.—Structural alterations have been completed and the exhibits largely re-arranged and labelled, in accordance with the slip-catalogue. The Ecuador stone series, Peruvian pottery and bronzes and the Antilles Collection have been moved, and Peruvian pottery, textiles and mummies exhibited in a new standard case.

Registration, etc.—The registration of current acquisitions has been continued, and 3,213 objects have been added, including ethnographical specimens.

Photographs to the number of 33 have been taken in the Department for purposes of illustration and reference, and 54 extra prints prepared. Typewritten labels to the number of 323 have been cut and bordered, and 36 labels for drawers

printed on the hand-press; 149 boards papered, and 2,009 objects mounted. There have been prepared 366 trays, plinths, stands, tablets, frames, and cases of various kinds, mainly for the exhibition galleries.

Six prehistoric urns and one Roman amphora have been restored, one table-case lined with cloth, the Easter Island sculptures and the busts in the Hall cleaned, as well as the Thruxton mosaic pavement on the north-east staircase, where a scaffold has been erected for fixing the Hemsworth pavement, which has been restored. The Ethnographical casts from Egypt have been fixed in another position. A North American Indian bowl and carvings, an Eskimo canoe and fly-whisk have been repaired, and wooden models made of early British iron-work from Welwyn, and blocks of Peruvian masonry.

Antiquities have been examined at Chingford, Westminster, and at the offices of the Metropolitan Water Board; and collections packed at Stowmarket and Welwyn and brought to the Museum.

Publications.—A second edition of the Stone Age Guide was published in February; and the bulk of the Catalogue of Mediæval Finger-rings is in print. The slip-catalogue of Oriental wares has been kept up to date, and a series of stone implements collected by Dr. Stein in Chinese Turkestan has been described and illustrated.

Students.—Three thousand two hundred and sixty students and visitors have been received in the Department. Three parties have been conducted through the Stone Age and Ethnographical Galleries by members of the staff, and the Brighton meeting of the Museums Association was attended.

II.—*Acquisitions.*

(1.) *Prehistoric and Early British Antiquities:*—

(a.) *Stone Age.*—Flint implements of eolithic and palæolithic types from the summit of Hackpen Hill, Wilts. *Presented by Rev. H. G. O. Kendall.*

Seventy palæolithic implements from Kennet pit, near Newmarket, and neolithic flints from north-west Suffolk. *Presented by C. R. Jennings, Esq.*

Polished celt from Dorset and one partly polished from the Lea, opposite Temple Mills. *Presented by Dr. C. H. Read, P.S.A.*

Polished celt from Firle Beacon, Sussex. *Presented by Mr. Moore.*

Bone adze-heads, various stone tools and worked flakes, from the site of ancient lake-dwellings at Ulrome, E.R. Yorks, discovered in 1880–1 and described in *Archæologia*, lxii. 593. *Excavated and presented by Thos. Boynton, Esq., F.S.A.*

Axe-hammer of millstone grit found at Corbridge-on-Tyne, 1869; and flat stone with a shallow pit on each face found near the Roman bridge at Riding Mill, on the Tyne, 1874.

Flint specimens of neolithic date showing double patination, found in Wigtonshire. *Presented by Ludovic Mann, Esq.*

(b.) *Bronze Age.*—Five "drinking-cups" (beakers) and two "food-vessels" found in Scotland, from the collection of the late Mr. H. W. Young.

Six palstaves found together at Burnham-on-Crouch, Essex, from the same mould.

Socketed spear-head from the upper layer of West Furze lake-dwelling, E.R. Yorks, illustrated in *Archæologia*, lxii. 603. *Presented by Thos. Boynton, Esq., F.S.A.*

Specimens of bone and shale from Heather Burn cave, Stanhope, co. Durham. *Presented by Rev. Wm. Greenwell, F.S.A.*

Bronze ornaments and weapons, mould for socketed celts, bronze and bone pins, and various bone implements with pottery fragments found in Heather Burn cave, co. Durham.

(c.) *Early Iron Age.*—An important series of late Keltic antiquities found at Welwyn, Herts, in 1906, and collected by the late Mr. G. E. Dering. The bronzes are nearly all of Italian origin, probably made at Capua, and include fragments of a *patella* of frying-pan form, two jugs and the mounts of a tankard all closely resembling those found at Aylesford, Kent; and in addition a pair of silver cups. An iron frame of oblong plan with four broad uprights ornamented with twisted columns, and three large fire-dogs with bull's-head terminals are of native work, as are also the pear-shaped "pedestal" urns and other pottery vessels, some of which were in separate burials after cremation and others in two large vaults which contained the iron and bronze objects. All date from about the middle of the 1st century B.C., and may be referred to the Belgic population: described in *Archæologia*, lxiii. 1. *Presented by Mrs. A. J. Neall.*

Engraved bronze boat-shaped brooch, of Italian type, found at Box, near Bath. *Presented by Alfred Jones, Esq.*

Pottery urn and fragments of other vessels found in or near ancient lake-dwellings at Ulrome, E.R. Yorks, described in *Archæologia*, lxii. 600. *Excavated and presented by Thos. Boynton, Esq., F.S.A.*

Socketed iron spear-head from the Thames at Brentford *Presented by Dr. C. H. Read, P.S.A.*

Iron fragments of a sword or currency-bar found in Lyneham barrow, Oxon, and described in *Proc. Soc. Antiq.*, xv. 409. *Presented by Lord Moreton.*

(d.) *Foreign.*—Flint specimens of Le Moustier period, found in a Jersey cave known as Cotte St. Brelade, described in *Archæologia*, lxii. 450. *Presented by the Société Jersiaise.*

Obsidian core and flake of Early Minoan III. period (2400—2200 B.C.), found at Mokhlos, Crete. *Presented by H. R. Hall, Esq., F.S.A.*

Stone hammers, copper tool and ore, and fragments of crucibles, from sites in Sinai. *Presented by the Egypt Exploration Fund.*

Pottery fragments and breccia from a cave in the Ronda Mts., in the South of Spain. *Discovered and presented by Col. Willoughby Verner.*

Massive bronze armlet engraved in the style of the Hallstatt period, found in Hungary.

Bronze swords, daggers, halbert-blades, socketed spear-head and celt, of Bronze Age types, found in China.

Specimens of the rude stone implements of Tasmanian aborigines. *Presented by J. E. Philp, Esq.*

(2.) *Romano-British :—*

Pig of lead inscribed with the name of the Emperor Hadrian, found at Theobald's Park, Herts, 1885.

Stone sepulchral monument with standing figure in recess and Greek inscription in three lines, found in Lamb's Conduit Street, London, W.C.

Pottery antefix with the boar of the twentieth legion, found on the site of the factory at Holt, Cheshire. *Presented by Arthur Acton, Esq.*

Two cinerary urns found on the site of Moorgate Street Station (West Street, Finsbury Circus), 1902. *Presented by Messrs. S. Pearson and Sons, Ltd.*

(3.) *Anglo-Saxon and Foreign Teutonic :—*

Cinerary urn stamped with trigrams found near another between Cavenham and Lackford, Suffolk, 1911. *Presented by Mrs. Allen Sturge.*

A "long" brooch and bracelet of bronze from the rampart of Woolbury Ring, Stockbridge, Hants. *Presented by Gray Hill, Esq.*

Iron shield-boss of conical form, from a cemetery at Wickham, near Sturry, Kent. *Presented by James Berry, Esq., F.R.C.S.*

Iron sword of the Viking period, with curved guard and lobed pommel, from the Thames at Windsor.

Silver earring of the Frankish period, obtained in Belgium. *Presented by Dr. Frank Corner.*

(4.) *Mediæval and Later :—*

(a.) *British.*—Silver matrix of seal set with antique nicolo intaglio, with legend FRANGE LEGE LECTA TEGE, about 1300.

Silver matrix of seal set with antique jasper intaglio of a horseman, with legend **QVE TIBI LEGO LEGE,** 13th century; and a barometer with ivory shaft and lettering in English and French made by John Patrick in the Old Bailey (London), early 18th century. *Presented through the National Art-Collections Fund by Max Rosenheim, Esq., F.S.A.*

Wooden charter-box with three locks, ornamented in low relief with quatrefoils enclosing animals, 14th century.

Bronze seal-matrix of John Choc, two annular brooches, chape of knife-sheath and Maltese cross of bronze-gilt, found at Dunwich, Suffolk. *Presented by P. Carlyon-Britton, Esq., F.S.A.*

Bronze horse-trapping, shield of arms charged with three choughs, black and red enamel, found at Beaconsfield, Bucks. *Presented by Dr. C. H. Read, P.S.A.*

Alabaster carving of the Nativity, with crenellated top and spotted background, 15th century.

Monumental brass representing a priest holding chalice and paten, late 15th century.

Knife and fork stamped JEFFERY, with handles of Whieldon's agate ware, mid 18th century. *Presented by B. P. Harland, Esq.*

Specimen of the tin chocolate-boxes sent to the troops in South Africa in 1900 by her late Majesty Queen Victoria. *Presented by the Army Council.*

(b.) *Foreign.*—A remarkable series of Gothic church-plate from the Hospital de la Vera Cruz at Medina de Pomar, near Burgos, Spain, to which they were given by Don Pedro, Conde de Haro. It consists of a silver-gilt ciborium engraved and ornamented with plaques of niello and enamel, with figures of apostles and saints and St. Andrew's cross (*aspa blanca*); a pair of silver candlesticks, parcel gilt, with eight-foil bases; silver-gilt paten with medallion of translucent enamel and part of the Lord's Prayer engraved round the edge; a chalice embossed and ornamented with enamel, one of the shields charged with the arms of Velasco, as on the ciborium; a standing crucifix with enamelled panels on both faces and in the centre of the back relics of the True Cross covered by a disc of crystal; and a crucifix of silver-gilt, the cross raguly, with niello arms of Haro on the knop-facets. The objects date between 1450 and 1500, but are without silversmiths' stamps; they are described and illustrated in *Proc. Soc. Antiq.*, xxiii. 474. *Presented by J. Pierpont Morgan, Esq., Hon. F.S.A.*

Limoges painted enamel badge, with legend in gold **TVRQVIN SVIS,** 16th century. *Presented through the National Art Collections Fund by Max Rosenheim, Esq., F.S.A.*

(5.) *Ceramic and Glass Collections:—*

(a.) *Oriental Wares.*—Two cylindrical stoneware vases on three feet, and a celadon bowl, early Chinese.

Chinese stoneware bowl with chocolate-colour glaze; bowl with green glaze and oval body ribbed; large jar with brown-black design in low relief; jar with storks and spirals in brown on white ground; and two small dishes with white glaze. Also pottery bowl with iridescent white glaze, another with applied leaves and three claw feet, two cups and small porcelain figure.

Chinese stoneware bottle, probably of the T'ang dynasty, and vase with creamy glaze, probably Tz'ŭ-chou ware, of the Sung dynasty. *Presented by Wm. C. Alexander, Esq.*

A valuable series of Corean ware, Chinese pottery vessels, and a glazed stoneware bowl fixed inside its sagger, of the Sung or Yüan period. *Presented by G. Eumorfopoulos, Esq.*

Stoneware water-vessel in the form of a peach, with crackled turquoise glaze, probably Kuan ware, Sung dynasty. *Presented by Wilson Crewdson, Esq., F.S.A.*

Two cylindrical pottery jars with turquoise glaze, and three glazed tiles, from Aleppo.

Stoneware cup and vessel in the form of a dog, both of Sung dynasty; and a series of clay statuettes, model of a house, grain-crusher and stove, and a vase with fluted body, all of the Han dynasty, from Shansi, North China.

Glazed pottery tile, a half cylinder with sloping circular end in relief, Chinese, 15th century, from a Ming tomb. *Presented by J. S. T. Audley, Esq.*

Glazed stoneware vase in the form of a fish, probably Canton ware, 17th century; and a flask covered with black lacquer and inlaid with mother-of-pearl (lac burgauté), 18th century. *Presented by Norman Hardy, Esq.*

Porcelain plate with tiger, bamboo and prunus, Japanese, 17th century. *Presented by Kington Baker, Esq.*

Pair of porcelain ewers decorated in underglaze blue with enamel colours and gilding, Chinese, early 18th century. *Bequeathed by Mrs. J. G. Keen.*

Chinese porcelain coffee-cup and four plates, with arms of Elwick, Stanley and Mathew (Cornwall), 18th century. *Presented by C. A. Beavan, Esq.*

Porcelain vase imitating a bronze form with elephant-head handles; dish with pomegranate design and mark of the K'ang Hsi period (1662–1722); and four bowls marked Yung Chêng period (1723–1735). *Presented by Andrew Burman, Esq.*

(b.) *Continental.*—Two glazed tiles with floral designs, polychrome, Dutch. *Presented by Dr. C. van Fijen.*

(c.) *English.*—Three mediæval pottery pitchers with green glaze, found in 1899 on the site of a kiln (now the Central railway-station) at Nottingham. *Presented by Mrs. Chapman.*

Small pottery jug with yellowish-green glaze, mediæval. *Presented by Lt.-Col. B. Croft Lyons, F.S.A.*

Slip-ware dish, lady holding lily and rose, with initials in the field, and on the border JOHN WRIGHT 1702.

Delft covered punch-bowl with drinking scenes on the body, and below both handles $\frac{H}{TT}$ and date 1697. *Presented through the National Art-Collections Fund by Max Rosenheim, Esq., F.S.A.*

Chelsea porcelain plate, cup and saucer in oriental style, Derby plate in Worcester oriental style, and Worcester bell-pull and spill-vase. *Presented by Kington Baker, Esq.*

Earthenware plate with white glaze and spray of herbaceous heath, marked SWANSEA. *Presented by Mrs. Dickson.*

Coalport porcelain tea-cup and saucer (J. Rose & Co.), two Worcester coffee-cups and Bristol coffee-cup. *Presented by C. B. Farmer, Esq.*

Bronzed plaque of Wedgwood ware, with Bacchanalian procession. *Presented by F. E. Hallett, Esq.*

Porcelain plate with rustic scene, after an engraving in the style of Hogarth. *Presented by L. A. Lawrence, Esq.*

(d.) *Glass.*—Amphora, jugs, bottle, cup, and bracelet, and a moulded bottle with hexagonal body, and lattice-pattern, palm, cross and figure in the panels, all of Roman period, and from Aleppo.

Fragments of Roman window-panes found in Magdalene College grounds, Cambridge, 1910. *Presented by Rev. F. G. Walker.*

Thin glass cup and intaglio with blanks imitating precious stones, Roman period, from Egypt. *Presented by the British School of Archæology in Egypt.*

Calcedonio ewer with ribbed body, marbled in brown, green and blue, Venetian, 16th century. *Presented through the National Art-Collections Fund by Max Rosenheim, Esq., F.S.A.*

(6.) *Collection illustrating various Religions:*—

(a.) *Christianity.*—Enamelled copper medallion with busts of St. Basil and St. Nicholas, Byzantine, 11th century; and a gold bracteate with filigree design, human face above an animal and round the border ΣΦΡΑΓΙΣ ΘΕΟΥ.

Coptic stone capital elaborately carved, and stone panel carved with the acanthus; redware dishes stamped with the cross, and sandals from Memphis, Roman period. *Presented by the British School of Archæology in Egypt.*

(b.) *Buddhism.*—Head of a stone statue with elaborate head-dress, and three friezes carved with Buddhist scenes, from Swat, North India.

Two wooden standing figures of Bodhisattvas. *Presented by G. Eumorfopoulos, Esq.*

(7.) *Oriental and Ethnographical:*—

Asia.—A leather pouch, mounted in silver, with fire-steel: from Kalgan in North China. *Presented by R. Laurence Binyon, Esq.*

A number of bones inscribed with ancient Chinese characters. *Presented by J. Spier, Esq.*

A series of bones, some carved, with amuletic inscriptions in ancient Chinese characters.

Various ancient bronzes and a two-handed armour-breaker of iron, from Shansi, North China.

Portion of a bronze bowl already in the Museum, from Tezpur, Assam. *Presented by Ed. Earle, Esq.*

A ceremonial apron, head-dress and other ornaments, of carved bone beads, from Tibet.

Two Indian land-grants.

Africa.—A large and valuable collection, illustrating the ethnography of various tribes in Northern Nigeria and in the neighbourhood of lake Chad. *Presented by Miss Macleod.*

A series of stone implements and pottery fragments from Kitchen-middens on the coast of South Africa. *Presented by J. Bruce Bays, Esq., M.D.*

A series of spears and shields from the Uganda Protectorate: collected by the late C. M. Cowper Coles, Esq. *Presented by S. H. Cowper Coles, Esq.*

An ethnographical series from Southern Nigeria. *Presented by Sir John Kirk, G.C.M.G., K.C.B.*

A bead ornament from the Basuto. *Presented by R. R. Hickling, Esq.*

A series of stone celts from the Bauchi plateau, Northern Nigeria. *Presented by T. W. Pragnell, Esq.*

A series of weapons, musical instruments, and utensils, collected by Lord Mountmorres in the north-east region of the Belgian Congo.

A bronze jug in the form of a leopard: from Benin, Southern Nigeria.

A steatite figure from Mendiland, Sierra Leone.

A large mask and a pottery vase from Southern Nigeria.

Oceania.—A series of stone implements of the extinct aborigines of Tasmania.

Three stone *churinga*, from the Arunta of Northern Territory, Australia.

America.—A series of ancient pottery and beads of cornelian, stone and amber, from the bed of the sacred lake of Guatavita, Colombia. *Presented by Louis Clarke, Esq.*

A large collection illustrating the ethnography of the Chorote Indians, Bolivia. *Presented by Count Eric von Rosen.*

A shrunk human head, from Quito, Ecuador. *Presented by Alex. Rawlinson, Esq.*

A series of antiquities from Cuzco, Peru.

A club from British Guiana and a series of feather ornaments from the Paraguayan Chaco.

A collection of stone implements from Greenland, formed by the late Edward Whymper, Esq.

London Missionary Society's Collection.

The collection belonging to the London Missionary Society, and deposited on loan in the British Museum in 1890, has been acquired by purchase at a nominal price, the Trustees of the Christy Collection providing one-half the necessary sum. This collection, the greater part of which was acquired by the early Missionaries, John Williams, W. Ellis, D. Tyerman, and G. Bennet, comprises the most valuable series of Polynesian idols and ceremonial objects in existence. Now that it has been added to the British Museum series, the latter becomes the most extensive and historically important collection illustrative of Polynesian ethnography in the world.

Christy Collection.

During the year 363 objects have been entered in the registration Catalogue. The Christy Trustees have acquired by donation the following objects, which they have transferred to the Trustees of the British Museum :—

(1.) *Ethnography of Africa:*—

A set of three throwing-knives (ngalio) from Bornu. *Presented by Dr. D. Alexander.*

Arrows from the Dakkakari people, Kontagora Province, Northern Nigeria. *Presented by T. R. Bowlby, Esq.*

Section of a branch of the sacrifice-tree, Kumasi, Ashanti. *Presented by H. Drewry, Esq.*

Iron rings and copper bangles excavated during the construction of the Baro-Kano railway, Northern Nigeria. *Presented by H. S. W. Edwardes, Esq.*

A pottery *gabna* for coffee from Omdurman. *Presented by G. W. Grabham, Esq.*

A series of weapons and other objects from Somaliland and Bechuanaland. *Presented by Major G. H. Grant.*

Two engraved gourds and a wooden snuff-box from the Akamba of the East Africa Protectorate. *Presented by C. W. Hobley, Esq., C.M.G.*

Ethnographical series from the Munchi of Southern Nigeria. *Presented by G. S. Podevin, Esq.*

A bark-cloth robe from Uganda. *Presented by J. H. Skilbeck, Esq.*

(2.) *Ethnography of Asia :—*

A stone celt from Sarawak. *Presented by C. J. Brooks, Esq.*

A brass *lingam* from India. *Presented by S. C. Hill, Esq.*

A pair of castanets from the Kalinga of Isabella, North Luzon, Philippine Islands. *Presented by J. W. Howells, Esq.*

A cloth jacket from the Shan States. *Presented by Miss Jessie E. Muntz.*

Cloth woven by the Iu people of South China. *Presented by A. L. Nairn, Esq.*

Model of a Mongolian pack-saddle. *Presented by Roger Pocock, Esq.*

(3.) *Ethnography of Oceania :—*

A club and boomerang from New South Wales, and stone and glass implements from New South Wales, North-West Australia and Tasmania. *Presented by the Hon. J. M. Creed.*

A net of bark-fibre from New South Wales. *Presented by Mrs. J. Macdonald Larnach.*

A stone celt from New Guinea. *Presented by R. B. Pilcher, Esq.*

Weapons from the Solomon Islands and a shield from the Trobriands. *Presented by Capt. H. Ramsden.*

A wooden rain-charm from Western Australia. *Presented by Dr. C. G. Seligman.*

Two small drums and two lime-spatulæ from British New Guinea. *Presented by R. S. Grant Thorold, Esq.*

Nine obsidian implements from Easter Island. *Presented by W. F. Woods, Esq.*

(4.) *Antiquities and Ethnography of America :—*

A white metal casting in the form of a knife found while excavating for the railway, Chile. *Presented by O. Chadwick, Esq.*

A series of antiquities from Cuzco, Peru, and Tiahuanaco, Bolivia. *Presented by Louis Clarke, Esq.*

Pottery fragments from the Aruka hills, Morawhanna, British Guiana. *Presented by the Rev. C. Cooksey.*

A series of ancient Chiriqui vases from Panama. *Presented by Douglas F. S. Filliter, Esq.*

Series of ancient pottery from the river Beni, Bolivia. *Presented by F. Fisher, Esq.*

Series of flint knives and arrowheads from the Grand Cañon, U.S.A. *Presented by Roger Pocock, Esq.*

Ethnographical series from the Kenai peninsula, Alaska, U.S.A. *Presented by J. T. Studley, Esq.*

Charles H. Read.

Department of Coins and Medals.

I.—*Registration and Arrangement.*

1. *Greek Series:—*

778 coins of various parts of the Greek world, recently acquired, have been registered and 902 have been incorporated.

In the Macedonian series the gold, silver, and copper coins of Philip II. have been classified under types with sub-divisions under adjunct symbols, letters, and monograms.

A similar classification of the coinage of Alexander the Great has been carried out, but where practicable the coins of the Eastern Empire have been arranged under mints. The coinages of the later Kings of Macedon have also been re-arranged previously to being described for the Catalogue. This re-classification has necessitated the writing of new heading-cards and labels throughout. The large increase to this series by recent purchases and gifts has required the inclusion of four additional cabinets.

The following collections have been examined with a view to making selections either for presentation or purchase:—(*a*) A large find of silver coins of the Thessalian League; (*b*) a series of coins of Panticapaeum and Olbia; (*c*) an extensive series of coins collected by a resident in Asia Minor; and (*d*) various Catalogues of sales in London and on the Continent.

The MS. bibliography of Numismatics has been continued and brought up to date.

The "Index of Types" in connection with the Catalogues of Greek coins published by the Trustees has been brought up to date; and the Card Index of illustrated Greek coins under types has been continued.

2. *Roman and Byzantine Series:—*

256 coins, Republican and Imperial, recently acquired, have been registered and incorporated.

The Roman Republican gold, silver and bronze coins issued in Campania, and also the bronze coins of the Provinces have been placed in cabinets in the order of the Catalogue. Many heading-cards and outside labels have been written.

A hoard of 369 Imperial denarii found at Edwinstowe, Notts, and declared to be Treasure-Trove, has been examined, classified, and described, and a selection made.

The following series of coins have been examined:—(*a*) A large number of coins mostly of the later Roman Empire found at Caerwent; (*b*) two hoards of Republican denarii found in Spain.

956 tickets giving references to the Catalogue of Roman Republican coins, and 969 similar tickets giving references to

the Catalogue of Coins of the Vandals, etc., have been written and placed beneath the coins.

A bibliography of articles in periodicals, etc. relating to Roman coins has been commenced.

3. *British and Colonial Series* :—

447 coins and tokens, recently acquired, and also 96 medals have been registered and incorporated.

The coins of Henry III. and Edward I. and II. have been re-arranged with the different types classified under each mint.

The nobles of Edward III. have been re-arranged in chronological order, deduced from a comparison of the coins already in the Museum and of those of the East Raynham find. Notes on this classification have been made and published in the *Numismatic Chronicle* for 1911.

In a similar manner the long-cross coins (pennies) of Henry III. have been re-arranged from evidence extracted from the Palmer's Green hoard and other sources.

The following hoards of coins, declared to be Treasure-Trove, having been forwarded by H.M. Treasury, were examined, arranged, and reported upon :—(*a*) A series of guineas and 1 half-guinea of Charles II. and William III., and 3 louis d'or of Louis XIV. of France found at l'Ancienneté, St. Brelade, Jersey ; (*b*) 200 nobles of Edward III. found at East Raynham, Norfolk ; (*c*) 200 pennies, English, and 5 Irish pennies of Henry III., and 4 others of Alexander III. of Scotland found at Palmer's Green, N.

The portion of the Kirkcudbrightshire find of coins of Edward I. and II. (1,300 specimens) not required by the Society of Antiquaries of Scotland was classified and a selection made.

A list of duplicate specimens of XVIIth century London tokens in the Guildhall Library has been examined and a selection made for presentation of such pieces as are not in the National Collection.

Various collections, private and otherwise, of coins of William I. and II., Henry I., and Stephen have been examined in connection with the volume of the Catalogue of English Coins "Norman Kings," now in course of compilation. Casts have been made of such specimens as are not represented in the Museum. When offered for purchase selections have been made.

The bibliography of English coins desribed in various publications has been commenced.

4. *Mediœval and Modern Series* :—

145 coins and 34 medals recently acquired have been registered and incorporated.

Rectifications have been made in the attributions of coins to certain Doges of Venice and also to the series of German bracteates, many of the latter having been identified.

The proof-sheets of the *Corpus Nummorum Italicorum*, Vol. II., which has been issued by H.M. the King of Italy, have been read and collated with the coins in the British Museum.

5. *Oriental Series*:—

90 coins, recently acquired, have been registered and incorporated.

A list of the coins of the State of Oudh in the British Museum has been compiled for the Bengal Asiatic Society.

Notes have been made of unpublished coins in the series of the Sultans of Delhi.

The series of coins procured by the Stein expedition in Khotan have been examined and identified.

A minute examination was made of the Pathan and Moghul coins in the Bleazby Collection, which were compared piece by piece with those in the Museum previous to its presentation by Mr. Henry Van den Bergh (see also *Acquisitions, Oriental Series*).

A large collection of coins of Afghanistan, the Sikh Empire, and Kashmir has been examined with a view to its acquisition in the future.

The collection of Indian coins in the Imperial Institute has been arranged.

A selection of representative coins in the Bleazby Collection presented by Mr. Henry Van den Bergh has been made and placed on exhibition in the corridor of the Medal Room.

II.—*Catalogues.*

1. Catalogues of Greek Coins.

Coins of Philip II., Alexander the Great, and later Macedonian Kings, by Warwick Wroth.

In preparation for this work a preliminary re-arrangement of the coins of Philip II. and Alexander the Great was made. The coinages of the later Kings, including those of Lysimachus of Thrace were also re-arranged and those of Antigonus and Demetrius Poliorcetes have been described.

(On account of the death of Mr. Warwick Wroth further progress with this work is at present in abeyance.)

Coins of Palestine (Galilæa, Samaritis, and Judæa), by G. F. Hill.

The description of the Civic Coinages for this volume, which are arranged under the various Cities at which they were struck, has been completed ; and an introduction to each mint has been written. The series of Philisto-Arabian and Egypto-Arabian coins have also been described and the introduction written. The cataloguing of the Maccabæan coins has been begun.

An epigraphic table of the Jewish coins is in course of preparation.

2. Catalogues of Roman and Byzantine Coins.

Coins of the Vandals, Ostrogoths, and Lombards, and of the Empires of Nicæa and Trebizond, by Warwick Wroth.

The text from signature E e onwards and the whole of the introduction and indexes have been passed for press; and the volume published.

3. Catalogues of British Coins and Medals.

Catalogue of English Coins: Norman Kings, by G. C. Brooke.

The description of the coins of William I. and William II. has been completed; and progress has been made with the series of Henry I. Selections of coins of the early types of William I. for illustration have been made.

Medallic Illustrations of the History of Great Britain and Ireland (illustrated ed.), by H. A. Grueber.

The compilation of Parts XV.–XVIII. has been finished and the indexes passed for press. This work is now completed.

4. Catalogues of Oriental Coins.

Catalogue of Indian Coins: Coins of the Guptas, by J. Allan.

All the coins comprised in this volume have now been weighed and described; the Plates in illustration have been mounted; and progress has been made with the historical and numismatic portions of the Introduction.

III.—*Acquisitions.*

The total number of coins and medals added to the Department during the year 1911 was 4,458, of which 323 are of gold, 2,614 of silver, 1,487 of bronze, and 34 of other metals.

The following table shows the numbers of the new acquisitions, classified according to the several series to which they belong:—

Class.	Gold.	Silver.	Bronze.	Other Metals, etc.	Total.
Greek	46	388	306	—	740
Roman	1	229	33	—	263
British and Colonial	87	428	141	22	678
Mediæval and Modern	5	63	47	12	127
Oriental	184	1,506	960	—	2,650
Total	323	2,614	1,487	34	4,458

Of the above, 2,929 have been presented, viz., 206 of gold, 1,564 of silver, 1,130 of bronze, and 29 of other metals.

The following is a list of benefactors to the Department of Coins and Medals during the past year :—

His Majesty Victor Emmanuel III., King of Italy; Vice-Admiral H.S.H. Prince Louis of Battenberg, G.C.B., G.C.V.O.; the Deputy Master of the Royal Mint; the Library Committee of the Corporation of the City of London; La Société Hongroise des Beaux-Arts, Budapest; El Universidad de los Andes, Merida, Venezuela; the Bombay Branch of the Royal Asiatic Society; the Committee of Management of the United Provinces Exhibition Association of India; the Department of Agriculture, Central Provinces, India; the Government of Eastern Bengal and Assam; the Government of Madras, India; the Government of the United Provinces of India; John Allan, Esq.; H. F. Amedroz, Esq.; W. P. Appleford, Esq.; A. Archibald, Esq.; Warren D. Barnes, Esq.; G. M. Beloe, Esq.; Henry Van den Bergh, Esq.; Frank Bowcher, Esq.; the Rev. C. J. Bowden; Harry L. Churchill, Esq.; A. Close, Esq.; D. R. Coates, Esq.; Ashley W. Cole, Esq.; R. Dalton, Esq.; Captain W. Dawkes; Mrs. Emma Esther Deacon; Edward S. Dodgson, Esq.; W. B. Doubleday, Esq.; Evelyn Grant Duff, Esq., C.B.; Miss Helen Farquhar; H. Pirie Gordon, Esq.; Herbert A. Grueber, Esq., F.S.A.; H. R. Hall, Esq., F.S.A.; W. R. Halliday, Esq.; S. H. Hamer, Esq.; Frederick D. Harford, Esq., C.V.O.; F. W. Hasluck, Esq.; G. F. Hill, Esq.; W. Murton Holmes, Esq.; Sir Henry H. Howorth, K.C.I.E.; L. P. Johnston, Esq.; H. Festing Jones, Esq.; Herbert Jones, Esq., F.S.A.; Alfred Lawson, Esq.; Mrs. Mackenzie; F. F. Madan, Esq.; F. H. Marshall, Esq.; J. Mavrogordato, Esq.; J. Grafton Milne, Esq.; H. Alexander Parsons, Esq.; John H. Pinches, Esq.; W. Talbot Ready, Esq.; Dr. P. Rizzini, Director of the Museo Civico, Brescia; the Rev. Edgar Rogers; Maurice Rosenheïm, Esq.; the late Max Rosenheim, Esq., F.S.A.; Horace Sandars, Esq., F.S.A.; Arthur Hamilton Smith, Esq.; Theodore Spicer-Simson, Esq.; Comm. E. Steinmann; Henry Symonds, Esq., F.S.A.; W. H. Valentine, Esq.; C. D. Wilkinson, Esq.; Lieut. A. T. Wilson; Howland Wood, Esq.; P. Wood, Esq., C.B.; and A. H. S. Yeames, Esq.

IV.—*Remarkable Coins and Medals.*

1. *Greek Series :—*

(*a*) *Europe :—*

Italy.—Lucania.—Velia.—A fine specimen of the silver drachm of the earliest period; *obv.* Forepart of lion devouring prey; *rev.* Incuse square. Wt. 59·6 grs.

Sarmatia.—Olbia.—Two specimens of a base silver didrachm of the early third century B.C.; *obv.* Head of Athene; countermark, branch; *rev.* ΟΛΒΙΟΠΟΛ. Lance and buckler; on the r., a monogram. Wt. 94·3 and 86·9 grs. The same types

were previously known only on bronze coins (Pick, *die antiken Münzen Nord-Griechenlands* I. pl. X. 35).

Olbia.— 9 bronze coins of various types.
Presented by Sir H. H. Howorth, K.C.I.E.

Thrace. — *Hadrianopolis.* — A bronze coin of Severus Alexander, *rev.* Hermes.

Thrace.—King Lysimachus.—One gold (of Byzantium), 54 silver and three bronze coins, including a fine tetradrachm and three drachms of the first coinage with Alexander's types.

Macedonia.—Philip II. and Alexander III.—A series of thirty gold staters of the usual types, 21 of Philip, and 9 of Alexander. *Presented by Mrs. Emma Esther Deacon.*

Macedonia.—Philip II., Alexander III., and the later Kings.—10 gold, 280 silver and 205 bronze coins; including specimens of the tetradrachm of Alexander with the types of Philip II.; and of the tetradrachm of Demetrius Poliorcetes with the types of Alexander III.

Illyricum.—Dyrrhachium.—Two silver drachms of the 2nd cent. B.C., with the magistrates' names.
Presented by F. F. Madan, Esq.

Pannonia.—Two silver staters; *obv.*, Laureate male head to right, with spiral on cheek; *rev.* Horseman to right. Wt. 205·8 and 202 grs.

A silver tetradrachm; *obv.* Bust to left, with branch in front; *rev.* **BVSV** Winged centauress. Wt. 261·3 grs. Cp. Muret no. 10141. From the Stroehlin Collection.

A silver tetradrachm; *obv.* Laureate head to right, in front, a long-tailed animal; *rev.* Unintelligible inscription; horseman to left with spear. Cp. Muret no. 9900. From the Stroehlin Collection.

Gaul.—Treviri.—A gold stater of the usual types, inscribed **VOCORAN.** Wt. 93·1 grs. Cp. Muret no. 8823. From the Stroehlin Collection.

Spain.—Carthago Nova.—A rare silver coin of the period of the Carthaginian occupation; *obv.* Head of Heracles to left, laureate, with club behind shoulder; *rev.* Elephant, with rider on neck, walking r. Wt. 227·4 grs.

This coin, of which but few other specimens are known, belongs to a series issued during the Barcide rule (221–209 B.C.). See *Berichte der k. preuss. Akad. der Wiss.*, 11 June 1863, pp. 248 ff.

Spain.—Orippo.—A bronze coin, with the usual rev. type, a bull standing r. *Presented by W. Murton Holmes, Esq.*

(*b*) *Asia and Africa*:—

Cimmerian Bosporus.—A bronze coin of Sauromates II.; *obv.* Head to right, and name of King Sauromates; *rev.* Eagle holding wreath in beak, and the letters **PMΔ**.
Presented by Sir H. H. Howorth, K.C.I.E.

Bithynia.—Nicaea.—A bronze coin of Trebonianus Gallus; *rev.* Sarapis seated; one of Valerian with Dionysus **ΔΙΟΝ . . . . ΝΙΚΑΙΕΩΝ**; and two of Gallienus and one of Salonina with types relating to games.

Bithynia.—Prusias ad Hypium.—A bronze coin of L. Verus; *rev.* Head of young Heracles in lion-skin.

Bithynia.—Prusa ad Olympum.—A large bronze of Trajan; *rev.* **ΠΡΟΥCΑΕΙC ΔΙΑ ΟΛΥΜ**. Zeus seated to right, holding Nike; and a bronze of Commodus; *rev.* Nike.

Uncertain City of Bithynia ?—A bronze coin of Claudius I.; *obv.* Head and titles of Claudius to left; *rev.* Zeus standing to r.; inscr. **Λ. ΔΟΥΝΙΟΥ CΕΟΥΗΡΟΥ ΑΝΘΥΠΑΤΟΥ.** and a monogram. Cp. Imhoof-Blumer, *Kleinasiatische Münzen* p. 529 no. 10. Nothing is known of the Proconsul L. Dunius Severus.

Mysia.—Apollonia ad Rhyndacum.—A bronze "medallion" of Elagabalus; *rev.* Apollo in Temple.

Mysia.—Cyzicus.—A bronze "medallion" of Caracalla; *rev.* Imperial galley to left. Cp. the similar type on a coin of Commodus; *Rev. Numism.* 1891 pl. IV. I.

Mysia.—Hadriani ad Olympum.—A bronze "medallion" of Septimius Severus; *rev.* Apollo with lyre and tripod; behind him, figure of Artemis on a column.

Aeolis.—Tisna.—A finely preserved, rare bronze coin of the 4th cent. B.C.; *obv.* Head of young river-god to left, horned; *rev.* **ΤΙΣΝΑ[Ι]ΟΝ.** Sword in scabbard.

Ionia.—Ephesus.—A silver drachm and half-drachm of Ephesus, *circa* 480 B.C.; *obv.* Bee; *rev.* Quadripartite incuse square. Wt. 50·6 and 20·4 grs.

Presented by A. J. Lawson, Esq.

Chios.—A bronze coin of three assaria, of the Imperial period, with the name of the magistrate, Aurelius Chrysogonos son of Epaphrodeitos; type, Apollo and Dionysos.

Presented by J. Mavrogordato, Esq.

Caria.—Cnidus.—A very fine silver half-obol of the 5th cent. B.C.; *obv.* Forepart of lion; *rev.* Head of Aphrodite in deep incuse square. Wt. 6·5 grs.

A silver didrachm of the Rhodian standard, *circa* 190–167 B.C.; *obv.* Facing head of Apollo; *rev.* Head and foreleg of lion; magistrate's name **ΛΥΣΙΠΠΟΣ**. Wt. 76 grs.

Caria.—Cnidus.—13 silver coins from the find of 1911, with magistrates' names; types, *obv.* Head of Artemis; *rev.* Tripod; and *obv.* Head of Aphrodite; *rev.* Bull's head and neck.

Caria.—Cnidus.—Two silver drachms, from the same find, with the names of the magistrates **ΕΥΤΕΛΗΣ** and **ΚΛΕΥΜΒΡΟΤ**.

Presented by J. Grafton Milne, Esq.

Cilicia.—Flaviopolis.—A bronze coin of Julia Mamaea; *rev.* Dioscuri and date 153 (= A.D. 226–7).

Armenia.—A bronze coin; *obv.* Head of King to right, wearing tiara; behind, small Nike; *rev.* **ΒΑΣ . . . . ΜΕΓΑΛΟΥ . . . . ΑΙΑΣΑΟΥ** King and City-goddess. Apparently of Artavasdes III. *Presented anonymously.*

Phoenicia.—Cæsarea ad Libanum.—A bronze coin of Elagabalus; *rev.* **COL CESARIA LIB** Founder ploughing with yoke of oxen.

Parthia.—11 drachms of Mithradates II., Phraates III. and IV., Gotarzes, Volagases I. and V. (from Khumanabad), and a copper coin of Volagases II.

Presented by Lieut. A. T. Wilson.

Elymais.—Dynasty of Kamnaskires.—A large bronze coin of Orodes (?), first century B.C.; *obv.* Head of King, behind anchor and crescent; inscription in two lines, in Chaldæo-Pehlvi script; *rev.* Arrangement of dashes (degraded type). Cp. Allotte de la Fuÿe, *Monnaies de l'Elymaide* Pl. X., no. 17.

Mauretania.—Five silver denarii of Juba II. (including one with the mint-name of **CAESAREA**); and one of Juba and Cleopatra.

2. *Roman Series:*—

A unique bronze coin of Augustus; *obv.* Head of Augustus to left, between the letters **S C**; behind, lituus; *rev.* Mare, with bell round her neck, browsing to right; in exergue **S C**. Spanish fabric. Found in the neighbourhood of an ancient mine at el Centenillo, in Southern Spain. See *Journal of Roman Studies*, Vol. I, p. 101.

Presented by Horace Sandars, Esq., F.S.A.

A barbarous imitation of the denarius of Tiberius, of the **PONTIF·MAXIM·** type. From Persia.

Presented by Lieut. A. T. Wilson.

A rare aureus of Nero; *obv.* **NERO CAESAR·AVG·IMP·** Head of Nero to right; *rev.* **PONTIF·MAX·TR·P·V·P·P·** and, in a wreath, **EX S·C.** Wt. 117·3 grs.

224 denarii, from Galba to Commodus, from the find at Edwinstowe, Nottinghamshire.

Four base denarii of the Emperors Probus, Gallienus, Nigrinianus, and Arcadius.

Presented by E. S. Dodgson, Esq.

25 bronze coins of Emperors from Probus to Focas.

From the Leitner Collection.

A rare silver siliqua of Isaac I. Comnenus; *obv.* Bust of Christ holding the Gospels; *rev.* **ΚΕ· ΒΟΗΘ· ΙCΑΑΚΙΩ ΟΡΘΟΔΟΞΩ ΔΕCΠΟΤΗ ΤΩ ΚΟΜΝΗΝΩ.** Wt. 22·5 grs. The only other published specimen of this coin appears to be that in the Paris Cabinet (see *B.M. Catal., Imperial Byzantine Coins*, Vol. II., p. 513).

From the Leitner Collection.

3. *British and Colonial Series* :—

(*a*) Coins :—

Two British gold staters both with the reverse type of a rude horse : but one having the obverse plain, the other a rude male head : the edge of the former is dentated. Also a quarter stater ; *obv.* Eye ; *rev.* Sickle, oak, etc.

From the Stroehlin Collection.

A British gold stater found on the sea-shore at Selsey, near Chichester, with plain obverse, but on the reverse a horse surrounded by ornaments of unusual forms.

Selections (2) of 40 silver pennies of William I., William II. and Stephen, of various types, and struck at Canterbury, Gloucester, Hereford, Ipswich, Leicester, London, Norwich, St. Edmundsbury, Thetford, Wallingford, etc.

A penny of Stephen struck at Castle Rising with the legend on the reverse, **HIVN [ON] RISINGE.**

Presented by G. M. Beloe, Esq.

A series of 107 silver pennies of the Long cross type of Henry III., forming part of a hoard unearthed at Palmer's Green. The evidence afforded by this find has made it possible to establish an entirely new classification of this coinage of Henry III. ; a classification, the inverse of that previously suggested by English numismatists.

A selection of 181 coins (pennies of Edward I, and II.; 4 Irish pennies of Edward II., and a Scottish penny of Alexander III.) from the Kircudbrightshire find.

80 gold nobles of Edward III. from a hoard found at East Raynham in Norfolk in December 1910. This hoard consisted of 200 nobles covering the period 1351–1372. As these coins were struck from 119 obverse and 179 reverse dies, the frequent use of one obverse with two or more reverse dies produced a large number of so-called mules connecting the three main classes. By this means it was possible to arrange in chronological sequence all the known varieties of the gold coinage of Edward III. and to determine in detail the minor varieties which distinguish the nobles and half-nobles attributed to the Calais mint from the London issues, and thereby to suggest a series of quarter-nobles, which may represent the Calais issues of this denomination.

A series of 72 XVIIth century London tokens, being duplicates of those in the Guildhall Library. This selection includes many rare pieces, more especially those of London taverns. *Presented by the Library Committee of the Corporation of the City of London.*

Five XVIIth century tokens of Corfe Castle, Shepton Mallet, Poole, Wareham, and Exeter.

Presented by Henry Symonds, Esq., F.S.A.

A pattern half-crown of Victoria with incuse types, by J. Rochelle Thomas.

Presented by H. A. Grueber, Esq., F.S.A.

"Royal Mint Museum Catalogue, Vol. I., Coins and Medals": also the Mint Report of 1911.

Presented by the Deputy Master of the Mint.

(*b*) Medals:—

A unique advertising ticket or medal in lead having on the reverse the name of "Thomas Nuttgrove," and a Tudor rose, and on the obverse a man on horseback. This interesting piece is of the second half of the XVIIth century and was probably the advertising ticket of a horse-jobber.

A series of 10 bronze medals commemorating the taking of Porto Bello and Fort Chagre in 1739 and 1741.

Presented by Vice-Admiral H.S.H. Prince Louis of Battenberg, G.C.B., G.C.V.O.

A portrait plaque in lead of George I.

Presented by Miss Helen Farquhar.

A series of 26 silver and 17 bronze or copper medals relating to British History and struck between the years 1736–1758. These medals commemorate various events, amongst which may be mentioned: the marriage of Frederick, Prince of Wales, and Princess Augusta of Saxe-Gotha, 1756; the administration of Sir Robert Walpole, *obv.* bust of Walpole, *rev.* statue of Cicero and the legend **REGIT NVMMIS ANIMOS ET NVMMIS REGITVR IPSE**; the passage of the Rhine by Prince Charles of Lorraine, 1744; the battle of Culloden, 1746; the election of William IV. as Stadholder of the United Provinces, 1747; the Treaty of Aix-la-Chapelle, 1748; the battles of Rosbach, Lissa, and Crefeld, 1757, 1758.

A bronze medal commemorating the coronation of their Majesties the King and Queen: with reverse, the King seated in a ship with Fame. By J. H. Pinches.

Presented by the Artist.

A specimen in silver of the medal issued in commemoration of the "Swapping Mallard Festival" held at All Souls College, Oxford, in 1901. The medal was struck from dies lent by His Grace the Archbishop of York.

A specimen in bronze of the medal of the Cambridge Society for Biblical Research. By F. Bowcher.

Presented by the Artist.

A portrait plaque of the late Max Rosenheim, F.S.A. By Theodore Spicer-Simson. *Presented by the Artist.*

4. *Mediæval and Modern Series:—*

(*a*) Coins:—

5 Flemish deniers esterlins of Alost (Guy de Dompierre and Robert III.), Maubeuge and Mons (Jean d'Avennes), and Yves (Gaucher), found in Scotland, and forming part of the Kircudbrightshire hoard.

A series of 19 silver and 2 copper coins of Raymond II., Count of Tripoli, and of the Lusignan Dynasty struck in Cyprus. The coins of the latter series consist of gros and half-gros of Henri II. (1312–1324); Hugues IV. (1324–1359); Pierre I. (1359–1369), and of Jacques II. (1460–1473); and two copper coins of the last ruler. With the exception of the last 3 pieces, these coins came from the Trésor du Morf.

A series of 14 silver and 5 copper coins of Goa struck by John VI., Maria I., Peter V., and Louis I. of Portugal.

A cut Spanish quarter-dollar countermarked for New Orleans.

13 pieces of Token-Money of the Greek Church in Asia Minor (Mytilene, &c.). *Presented by F. W. Hasluck, Esq.*

(*b*) Medals:—

A bronze medal of Maximilian I. attributed to Gian Marco Cavalli, 1506.

Presented by the late Max Rosenheim, Esq., F.S.A.

A bronze medal of Aretino, by Leone Leoni, with reverse type, Truth seated; before her kneels Hatred.

Presented by H. A. Grueber, Esq., F.S.A.

A bronze plaque with female figure watering flowers; struck to commemorate the Jubilee of the Société Hongroise des Beaux-Arts (1861–1911). *Presented by the Société.*

Silver medals commemorating the friendly relations between Chili and Argentina in 1903; the peace of 1902; and the visit of the Chilian Delegates to Buenos Aires in 1903.

Presented by Frederic D. Harford, Esq., C.V.O.

A silver medal and another in copper, of the same type but smaller, struck to commemorate the Centenary of Venezuelan Independence, 1811–1911. These medals were issued by the Venezuelan Government, for presentation only, on July 5th, 1911. *Presented by Frederick D. Harford Esq.*, C.V.O.

4 medals in bronze presented by the "Société Française d'Archéologie" to those present at the meetings at Evreux (1889), Brive (1890), Orleans (1892), and Noyon (1905).

Presented by Herbert Jones, Esq., F.S.A.

A bronze medal struck in commemoration of the Centenary of the Universidad de los Andes, Merida, Venezuela.

Presented by the Universidad through the Rector, Prof. R. Parra Picors.

A bronze medal of the University of Geneva commemorating the tercentenary of the appointment of the first Rector.

Presented by A. H. S. Yeames, Esq.

(*c*) Books:—

"Corpus Nummorum Italicorum," Vols. I. and II.

Presented by His Majesty Victor Emmanuel III., King of Italy.

"Depositi e Medaglie d'Alcuni Sommi Pontifici," Roma MDCCLXXX. *Presented by Henry Van den Bergh, Esq.*

5. *Oriental Series* :—

(*a*) Coins :—

2 gold mohurs of the Gupta Dynasty struck by Kumara Gupta I. A.D. 412–450, of the archer and lion type, and the horseman and goddess (Lakshmi) type.

4 silver coins of Muhammad bin Latif of Gujarat found in the Betul District.

Presented by the Department of Agriculture, Central Provinces, India.

2 gold coins of Achin (Malay Archipelago).

Presented by Warren D. Barnes, Esq.

3 silver coins of Alamgir II. (Emperor of Delhi) struck at Kashmir; of Mahmud (Afghanistan) also struck at Kashmir; and of Kuang Hsü (1875–1909) struck at Kashgar; also 2 Muhammadan amulets issued in Northern India.

Presented by W. P. Appleford, Esq.

10 rupees of Shah Alam, Emperor of Delhi, struck at Ahmadnagar and Farrukhabad of various dates; and 5 others of the same ruler struck at Bareli.

Presented by the Government of the United Provinces, India.

15 rupees of the Mogul Emperors of Delhi :—Akbar, Jahangir, Shah Jahan, Farrukh Siyar, Shah Alam I. and II., etc.; also 3 rupees of Haidarabad; and a Persian dirhem of Husain Shah struck at Isfahan in A.H. 1132.

Presented by Evelyn Grant Duff, Esq., C.B.

4 half-pagodas of Vijayanagara struck by Dēvarāya II., Achyutarāya, Sadāsivarāya, and Krishnarāya; and 2 pagodas of Ikkeri struck by Sadasiva.

Presented by the Government of Madras.

3 base silver coins struck by the Mahdi at Omdurman.

Presented by Howland Wood, Esq.

THE BLEAZBY COLLECTION OF MUHAMMADAN COINS OF INDIA.

Presented by Henry Van den Bergh, Esq., through the National Art-Collections Fund.

This collection, which consists of 173 specimens in gold, 1,480 in silver, and 994 in billon and copper, was formed by Mr. George Bleazby during a long residence in India. In making this collection Mr. Bleazby insisted on two points, viz., the historical importance of the coins and their state of preservation. The result has been that it is without exception the finest and most complete that has ever been brought together by a private individual. The series comprises coins of the six dynasties, known as the Sultans of Delhi, and of the Moghul Emperors of India, whose seat of Government was also at Delhi, and it forms a magnificent record of the history of India from A.D. 1166, when the victorious Muhammad bin Sam finally crushed the opposition of the Rajputs and became the first Muhammadan ruler of India till the deposition of Bahadur

Shah in 1857. This generous gift not only doubles this series of coins in the National Collection, but also places it far ahead numerically and in completeness of any other collection either in India or on the Continent.

(*b*) Medals :—

1 silver and 1 bronze medal of the United Provinces Exhibition, Allahabad, 1910.

Presented by the Committee of Management, United Provinces Association, Allahabad.

V.—*Students and Visitors.*

The number of visits made to the Department of Coins and Medals by students and others during the year 1911 was 4,050.

H. A. Grueber.

British Museum (Natural History).

STATEMENT of Progress made in the Arrangement and Description of the Collections, and Account of Objects added to them, in the Year 1911.

General Progress.

Visitors.

The total number of visits made by the public to the Natural History Museum during 1911 was 435,684, as compared with 515,562 in 1910. The falling off in numbers (nearly 80,000) is no doubt partly to be accounted for by the exceptionally fine weather experienced during the summer. A comparison of the figures during the months of July, August, and September with those of the same months of the previous year shows that nearly 40,000, or one-half of the decrease, occurred in those three months, when the weather was exceptionally fine. The number of visits on week days was 380,991, and on Sunday afternoons 54,693.

The average daily attendance for all open days was 1,207; for week days only, 1,221; and for Sunday afternoons, 1,032.

The Museum was closed on 22 and 23 June, the days proclaimed as Public Holidays on the occasion of the Royal Coronation and the Royal Progress.

Swiney Lectures.

Dr. T. J. Jehu gave his third course of Swiney Lectures during November, the subject being "The Natural History of Rocks."

The lectures, twelve in number, were delivered, as usual, in the theatre of the Victoria and Albert Museum, by permission of the Board of Education, and the total attendance for the course was 2,341 persons, or an average of 195 per lecture (as compared with 193 in 1910).

The Trustees have approved as the subject of Dr. Jehu's next course of lectures: "The Record of Life as revealed in the Rocks"; and they have agreed to his proposal to deliver them on Mondays, Thursdays, and Saturdays in December and January, with a fortnight's interval for the Christmas holiday, instead of in November.

Exhibition of the Natural History of the Bible.

In connection with the celebration of the Tercentenary of the first publication of the Authorized Version of the Bible, a special exhibition illustrating the natural history of the Bible has been arranged in the Central Hall of the Museum, and a Guide-book to the Exhibition has been published.

The Exhibition was opened to the public in June. The Exhibition has attracted considerable notice not only in this country but also in the United States, and it has been determined to keep it open for some time longer—probably until the end of the year (1912).

South Kensington Site.

This question, to which reference was made in the last Annual Return, has given the Trustees considerable anxiety, since the original proposal in connection with the use of the land on the north of the Natural History Museum threatened seriously to affect the interests of the Museum in the future. The views of the Trustees on the subject are fully set out in the White Paper "Copy of Correspondence between the First "Commissioner of Works and the Trustees of the British "Museum on the subject of the Provision of a Site for a New "Science Museum at South Kensington" (Cd. 5650).

As a result of further correspondence and of several conferences between representatives of the Departments concerned, a settlement has been arrived at, under the terms of which the boundary of the Natural History Museum as adjusted in 1899 has been secured to the Trustees. By the settlement the demolition of the existing Spirit Building has been avoided, and accommodation for the Geological Survey and the collections at present in Jermyn Street will be provided on ground south of the boundary line of 1899. The buildings for the Survey offices and the collections (while communicating with the Science Museum) will be in connection with and form a part structurally of the eastward extension of the Natural History Museum, and will be so arranged as to fit that extension when it is eventually built. A Lecture Theatre, which will be under the control of the Trustees but available for joint use by both Museums, forms part of the scheme.

The Trustees in assenting to provide this accommodation for the Geological Survey collections believe that the arrangement will be of great advantage to students and others interested, since these collections will thus be continuous with the part of the Natural History Museum in which are arranged the Systematic Palæontological and Mineralogical collections.

Spirit Building.

The question of the South Kensington site was closely connected with the problem of finding room for an extension of the building containing the spirit collections. Reference has in previous years been made to the over-crowded state of the Spirit House, and the provision of additional accommodation has become an urgent matter. The specimens form a most important section of the Natural History Museum, and their increase in number may be expected to be more rapid in the future than it has been in the past, great as this has been.

By the terms of the above-mentioned settlement the Trustees are debarred from extending the existing Spirit Building on the same alignment, either eastward or westward, as they had hitherto contemplated.

Correspondence on the subject has taken place between them and the First Commissioner of His Majesty's Works, who has submitted plans for the erection of a new Spirit Building on the open space lying between the Natural History Museum and Cromwell Road.

It is proposed that the new Spirit House shall be partly below the ground, the roof being at the same level as the footway adjacent in Cromwell Road.

The Trustees have found serious objection to placing the Spirit House in front of the main building, and they have only assented to the scheme because they are assured that no other suitable site is available.

Photographic Room.

This has been provided with two arc-lamps of 1,000 candle power, so that photographs may be taken at all times with a constant supply of sufficient light.

Entomological Research Committee.

Increased accommodation has been afforded at the Museum for the purposes of the Entomological Research Committee.

The Trustees have had brought to their notice the probable considerable development in the staff and work of the Committee, for which still further accommodation will be required in the near future; and they have under their consideration the question of the best way to provide quarters for the work of the Committee. The Trustees feel assured that it is in the interest of the Natural History Museum, not less than in that of the Entomological Research Committee, that the present close association of the Committee with the Museum should be established on a permanent footing, and they propose to reserve ample accommodation for the work of the Committee in the scheme for an extension of the Natural History Museum on its west wing which they have under consideration.

Destructive Action of Light.

Further reports have been received from the Director of the National Physical Laboratory on the results of experiments carried out to test the effect of light on skins of mammals and birds, recommending the use of tinted glass for electric light lamps, and stating that the deleterious rays can be excluded by interposing a sufficient number of layers of ordinary glass.

These reports have been brought under the notice of the Office of Works, with a view to the carrying out of the recommendations contained in them.

Museums Association.

Dr. F. A. Bather was appointed to act as the representative of the Natural History Museum at the annual conference of the Museums Association held at Brighton in July.

Meteorological Office.

By permission of the Trustees, the Director of the Meteorological Office, which recently moved to South Kensington, has placed a set of instruments for his daily observations and weather reports on a plot of grass in the Museum grounds, to which he is allowed access at 6 p.m. daily.

Protection of Whales in Antarctic Seas.

The attention of the Trustees having been directed to the wholesale destruction of Whales said to be going on in Antarctic Seas, representations on the subject have been made to the Colonial Office, with a view to bringing about an International Conference, in which the Trustees would be prepared to participate, on the need of measures being taken for the protection of these animals. The subject is one of considerable importance, for it is certain that the unrestricted slaughter of these marine mammals cannot be continued without serious danger of the extermination of the species concerned.

Protection of Birds in the West Indies.

At the request of the Acting Governor of the Windward Islands, received through the Colonial Office, schedules of species of birds for total and partial protection, with popular and scientific names, have been prepared for substitution *en bloc* for the present lists in the Wild Birds' Protection Ordinance (St. Lucia), 1885.

Bombay Natural History Society.

In response to an appeal from the Bombay Natural History Society, the Trustees have, with Treasury sanction, contributed towards a fund raised by that Society for the employment of trained European collectors to make a systematic collection of the mammals of India, Burma, and Ceylon ; it being a part of the scheme that all the specimens obtained will be sent to the Natural History Museum for identification and description, and the types and other specimens that may be required for the Museum will be presented by the Society to the Trustees.

Uganda Boundary Commission.

At the request of the Trustees, Mr. Robin Kemp, an experienced collector, was attached as naturalist to the Commission appointed to delimit the boundary between Uganda, the Congo, and German East Africa. A valuable collection consisting of mammals (including 23 species new to science) and birds has been received from Mr. Kemp.

Geological Expedition to British East Africa.

Through the generosity of friends of the Museum, Dr. Felix Oswald, F.G.S., arranged to devote four months to an exploration of the newly discovered Tertiary bone-bearing deposit in British East Africa, with the object of obtaining fossil specimens for the Museum. Facilities in aid of this mission have been promised by the Colonial Office.

Bequest.

The collection of Insects has been considerably enriched by the bequest of the late Mr. G. H. Verrall of part of his collection of British Diptera. The bequest was accompanied with the condition that Mr. Verrall's labels bearing the names applied by him should be permanently attached to his specimens.

Presents.

The total number of gifts received during the year by the several Departments was 2,431, as compared with 2,235 in 1910. Many of these comprised large numbers of individual specimens. The details of the more important of them will be found in the reports of the Keepers of the Departments, but the following are mentioned here also, as being of special interest:—

From the Duke of Bedford.—A very fine collection of Mammals and Birds from Western China brought together by His Grace's Collector, Mr. M. P. Anderson, during a systematic zoological survey of Western Asia.

From the Subscribers to the British Ornithologists' Union's Expedition to Dutch New Guinea.—The whole of the zoological collections obtained by the Expedition sent out in 1909 by the British Ornithologists' Union, under the leadership of Mr. Walter Goodfellow, to collect specimens in the unexplored Hinterland of Dutch New Guinea have been received at the Museum as a gift from the subscribers. The expedition was due to the initiation of Mr. W. R. Ogilvie-Grant, who acted as Secretary to the Committee formed to carry it out, while Mr. C. E. Fagan acted as Treasurer. The total number of specimens obtained is about 7,870, of which 2,750 are birds, nearly 500 mammals, and 2,860 insects.

From Mr. C. D. Rudd.—A second valuable consignment of mammals and birds collected in British East Africa by Mr. Robin Kemp. (The whole collection resulting from the zoological exploration of British East Africa undertaken by Mr. C. D. Rudd for the benefit of the Museum has amounted to 1,590 mammals, including the types of 44 new species and sub-species, 567 birds, and some insects, &c.—*See* last year's Return, page 111.)

From Mr. Robin Alexander.—A series of 4,798 Birds, including the types of no fewer than 84 species, selected from the collection obtained by the late Mr. Boyd Alexander during his various expeditions to Africa, Cape Verde, and Fernando Po.

From the Board of Trade.—Two specimens of Whales which were stranded on the coast during the summer: one being the complete skeleton of a Pilot Whale or Blackfish; the other, the skull, with fragments of the baleen, of a Lesser Rorqual.

From Captain E. C. Hardy, R.N., of H.M.S. "Mutine."—A collection of zoological specimens obtained on the West Coast of Africa by Mr. Willoughby P. Lowe, during the magnetic survey of that coast from the Cape to Sierra Leone.

From Lord Walsingham.—Three valuable series of Moths, viz., 700 Pterophorina or Tineina collected by him in S. France; 2,533 Tineina from N. Queensland; and 1,467 Tineina from French Guinea.

From Mr. F. D. Godman.—Further important collections of Mexican and Central American insects received during the year, comprising 19,444 specimens of Coleoptera, all fully labelled and arranged, and 900 specimens partly determined and described; 3,425 specimens of Lepidoptera, almost all being named Lycænidæ; 2,327 specimens of Odonata (Dragon-flies) fully labelled and described; 1,178 unnamed specimens of Neuroptera; and 305 named specimens of Orthoptera.

From Mr. Guy R. G. Nevinson.—A valuable collection of 6,500 beetles, of the family Cicindelidæ, formerly the property of the late Mr. Frederick Bates.

From the Solar Physics Observatory Eclipse Expedition.—A miscellaneous series of natural history specimens collected by the Officers during the cruise of the Expedition in the Pacific.

From the Geological Society of London.—All the non-British specimens of fossils, minerals and rocks contained in the Society's Museum: all type and figured specimens and all material of exceptional value and importance in illustrating the advance of the Science of Geology to be retained by the Trustees.

From H.I. and R.H. the Archduke Ludwig Salvator of Austria.—A set of very handsome volumes describing H.I. and R.H.'s various travels.

Purchases.

Among the more important purchases made during the year, special mention may be made of the following:—

The fourth instalment of the Rev. Canon A. M. Norman's collection of Atlantic and Arctic Invertebrates, consisting chiefly of Mollusca, Crustacea, Polyzoa, &c.; the second instalment of the first portion of the collection of Australian Coleoptera made by the Rev. Canon Thomas Blackburn; the second instalment of the Lewis collection of Coleoptera

from Japan and Ceylon; the first instalment of Mr. W. L. Distant's collection of Insects, comprising about 5,000 specimens of Cicadidæ and Moths, including 250 types; a fine series of vertebrate animals from the Cameroons, collected by Mr. G. L. Bates; skull, with the horns, of a white Rhinoceros from Southern Africa; 560 Fishes from British Guiana, including the co-types of 80 species; a collection of fresh-water fishes from Angola; collections of birds from Portuguese East Africa, Western Columbia, Palawan, etc.; a monkey-eating Eagle from the Philippines; collections of Moths from Western Columbia, Dutch New Guinea, etc.; a selection of very rare reptilian remains, in a remarkable state of preservation, from the Wealden of the South Coast of the Isle of Wight; fossil reptiles from the Trias of Elgin, and fish remains from the Upper Old Red Sandstone of Nairn; 5,000 small fossils, chiefly polyzoa, from the Chalk Marl of Cambridge; about 4,500 foraminifera from the Oligocene of Lower Alsace; a series of remains of 9 marine reptiles from the Oxford Clay of Peterborough; fragments of the Borodino meteoric stone, the meteoric iron found in the nitrate deposits of the Oficina Angela, Tarapaca, Chile, and the meteoric stone which fell in 1910 at Vigarano, Ferrara, Italy; a large and fine native copper; collections of plants from the Philippines, Mexico, Angola, China, Natal, Sandwich Islands, Bulgaria, etc.

Exchanges and Gifts of Duplicates.

Exchanges of duplicate specimens have been made with various institutions and individuals.

The following have been added to the list of institutions to receive grants of duplicate specimens, namely:—National Museum of Wales, Cardiff; Municipal Museum, Hull; Bethlem Royal Hospital; Goldsmith's College (University of London); Alexander McGregor Memorial Museum, Kimberley; Worksop Museum; University College, Reading.

Selections of duplicate specimens have been presented as follows:—

Of zoological specimens—to Battersea Museum; Huddersfield Museum; St. Helens Public Museum; Bootle Museum; S. Wilts and Blackmore Museum, Salisbury; the Australian Museum, Sydney; the National Museum of Wales, Cardiff; the Municipal Museum, Hull; the Imperial College of Science and Technology; the National Museum, Dublin; Grey Coat Hospital, Westminster; Londonderry Museum; Mr. Pierre Lesne, Paris; Mr. Adolf Schmidt, Berlin; Mr. A. M. Lea; Prof. G. H. F. Nuttall, F.R.S. (Cambridge University); Dr. F. Ohaus, Berlin; Dr. Hans Wagner, Berlin; Señor R. P. Longinos Navás, S.J., Saragossa; Mr. Heinrich Prell, Dresden; Dr. Creighton Wellman, California; Prof. O. Taschenberg, Halle; Dr. F. F. Kohl, Vienna; Prof. J. W. Spengel, Giessen; Prof. Dr. B. Y. Sjöstedt, Stockholm; Dr. K. M. Heller, Dresden; Mr. E. Olivier; and Mr. B. Lichtwardt, Charlottenburg.

Of fossils and casts of fossils—to the Zoological Department of Bristol University; the Royal Scottish Museum; Edinburgh; the Geological Museum of Oxford University; the Natural History Museum of the Grand Duchy of Luxembourg; London Hospital Medical College; Bethlem Hospital; the Botanical Department of Sheffield University; the London Museum; Dr. R. S. Bassler, Washington; and Prof. Sollas, Oxford University Museum.

Of mineral specimens—to the Geological Survey of India, Calcutta.

Of botanical specimens—to Warrington Museum; and Pennsylvania University Herbarium, Philadelphia.

(N.B.—All the *individuals* named have presented specimens or otherwise benefited the Museum.)

Publications.

The following works on Natural History have been published during the year :—

Catalogue of the Freshwater Fishes of Africa in the British Museum (Natural History). By G. A. Boulenger, F.R.S. Vol. II. Pp. xii., 529; 382 text-figures. Imp. 8vo. £2 10*s.*

Handbook of the Tsetse-Flies (Genus Glossina). By E. E. Austen. Pp. x., 110; 10 coloured plates and 24 text-figures, by A. J. Engel Terzi; 1 map. Roy. 8vo. 5*s.* 6*d.*

Catalogue of Lepidoptera Phalænæ (Moths) in the British Museum. By Sir G. F. Hampson, Bart. Vol. X. Atlas of 26 Coloured Plates. 8vo. £1.

A Monograph of the British Lichens: a Descriptive Catalogue of the Species in the Department of Botany, British Museum. Part II. By Annie Lorrain Smith, F.L.S. Pp. viii., 409; 59 plates. 8vo. £1.

A Monograph of the Mycetozoa: a Descriptive Catalogue of the Species in the Herbarium of the British Museum. By A. Lister, F.R.S., F.L.S. Second Edition, revised by Gulielma Lister, F.L.S. Pp. 302; 201 plates (120 coloured), 56 text-figures. 8vo. £1 10*s.*

Special Guides. No. 5.—Guide to the Exhibition of Animals, Plants, and Minerals mentioned in the Bible. Pp. vii., 74; 7 text-figures. 8vo. 6*d.*

New editions have been issued of the following Guide-Books :—

Guide to the Fossil Invertebrate Animals in the Department of Geology and Palæontology. By Dr. F. A. Bather, F.R.S. Second Edition. Pp. x., 183; 7 plates and 96 text-figures. 8vo. 1*s*

Guide to the Mineral Gallery. Eleventh Edition. Pp. 32. 8vo. 1*d.*

The Student's Index to the Collection of Minerals. Twenty-fourth edition. Pp. 36. 8vo. 2*d*.

Guide to the Exhibition of Animals, Plants, and Minerals mentioned in the Bible. Second Edition. Pp. vii., 78; 7 text-figures. 8vo. 6*d*.

Instructions for Collectors. No. 4.—Insects. Fifth Edition. Pp. 11. Text illustrated. 8vo. 3*d*.

Selections of the natural history publications of the Museum have been sent to Free Libraries and other institutions in Great Britain and Ireland, to Colonial, Indian, and foreign Museums, Libraries, and Scientific Societies, and to several persons who have benefited the Museum by helping in the publication of the volumes, or in other ways.

Additions have been made to the publications-exchange list.

The undermentioned works are in preparation :—

Catalogue of the Library, Vol. IV.

National Antarctic (Discovery) Expedition, 1901–4. Natural History, Vol. VI.

Catalogue of Bats, by Dr. Knud Andersen.

Hand-list of Birds, General Index to Vols. I–V.

Catalogue of Birds' Eggs, Vol. V., by W. R. Ogilvie-Grant.

Catalogue of Mammals of Western Europe, by Gerrit S. Miller.

Catalogue of the Freshwater Fishes of Africa, Vol. III., by G. A. Boulenger, F.R.S.

Third Report on Economic Zoology.

Illustrations of British Flies, Second Series.

Illustrations of Oriental Blood-sucking Flies, with text by E. E. Austen.

Catalogue of Moths, Vol. XI., by Sir G. F. Hampson, Bart.

Catalogue of Ichneumonidæ or Parasitic Flies, by C. Morley.

Catalogue of Polychæte Worms, by Dr. J. H. Ashworth

Catalogue of Marine Reptiles of the Oxford Clay, Part II., by Dr. C. W. Andrews, F.R.S.

Catalogue of Fossil Fishes, Part V., by Dr. A. S. Woodward, F.R.S.

Flora of Jamaica, by W. Fawcett, Vol. II.

Catalogue of the Sloane Herbarium, by J. Britten.

Catalogue of Cretaceous Flora, Vol. I., by Dr. Marie Stopes.

Guide to British Lichens.

General Library.

The additions to the General Library during the past year have been :—

By purchase - - -	327 volumes.
By transfer from other Departments - - -	2 volumes and 10 photographs.
By donation - - -	715 volumes, 87 maps, and 147 photographs.
Total -	1,044 volumes, 87 maps, and 157 photographs.

The most important donation of the year was that of fifty volumes, chiefly on his travels, received from H.I. and R.H. the Archduke Ludwig Salvator of Austria. The other personal donors to the Library during the year were :—

Austen, E. E., Esq.	Kofoid, C. A., Esq.
Bagshaw, W., Esq.	Orleans H.R.H. the Duke of.
Calman, Dr. T. W.	Pace, S., Esq.
Dean, Dr. Bashford.	Pearse, Major A.
Fagan, C. E., Esq.	Rothschild, Hon. W.
Fletcher, Dr. L.	Shackleton, Sir E., C.V.O.
Harmer, Dr. S. F.	Sherborn, C. Davies, Esq.
Hopkinson, John, Esq.	Smith, Dr. T. P.
Jackson, J. Wilfred, Esq.	Woodward, Dr. A. Smith.

All the volumes and maps have been catalogued, press-marked, and put in their places; whilst 1,401 volumes have been bound in 731, and one has been repaired.

The extent of the collection on the 31st of December was 40,998 volumes, 5,786 maps, and 695 photographs (not including those in the Owen Collection of Drawings, etc.).

The accessions to the Departmental Libraries have also been catalogued as they came in, and duplicate transcripts of the titles have been returned with the books.

Altogether 2,953 title-slips have been written, 224 re-written, and 3,951 revised (independently of those prepared for printing).

There are now, on a rough estimate, 89,772 volumes (exclusive of continuations and minor separata) and 6,140 maps in the whole building.

The number of visits paid to the General Library during the year by students and others (irrespective of the staff and persons to whom the use of a key is granted) was 1,947.

The printing of the Catalogue was proceeded with, and the work at the end of the year stood as follows :—

No. of sheets passed for press (A—RIBB) - -	212
No. of title-slips set up in type (A—RIBE) -	48,173

A "List of Works relating to the Natural History Departments of the British Museum to the end of the year 1910" was prepared, printed, and issued for the use of the staff of the Museum.

INDEX MUSEUM AND MORPHOLOGICAL COLLECTIONS.

In the early part of the year the exhibited collection of the "Memorials of Charles Darwin" was dispersed, and the 250 specimens and groups of specimens borrowed from various Departments of the Museum and from private individuals were returned.

An exhibition of Animals, Plants, and Minerals mentioned in the Bible has been placed in one of the bays on the east side of the Central Hall. It supplements the literary and historical Bible Exhibition which has been arranged at Bloomsbury for the Tercentenary of the Authorized Version. The Animals and Minerals, respectively, have been selected, arranged, and labelled by Mr. Lydekker and Dr. Herbert Smith, under the general supervision of the Keepers of Zoology and Mineralogy; the Plants have been selected, arranged, and labelled by Dr. Rendle, the Keeper of Botany. A guide to the exhibition has been prepared and published.

A greatly enlarged model of the Tropical Rat Flea (*Xenopsylla cheopis*), the Flea which is responsible for the spread of plague, was set out in the middle of the Hall in July. The model (that of a male) was presented by the Entomological Research Committee, which has since given enlarged models of the head and the hind end of the female of the same species for comparison with it.

The series of exhibits in the middle of the Hall illustrating the spread of diseases of Trypanosome origin by means of Tsetse Flies has been revised, enlarged, and re-labelled.

With a view to explaining to the general visitor the elementary principles of the classification of animals, plants, and minerals, and with the further object of indicating to him by reference to plans of the building the various Departments in which he may find exhibited the fuller series of such objects as he may desire to examine, specimens are being prepared for exhibition in a series of four upright table-cases to be placed in a prominent position in the Hall.

In view of the great interest taken in the Flight of Animals in consequence of the rapid progress recently made in the science of aeroplaning, specimens are being prepared to illustrate in a popular manner the modes of flight in Vertebrates and Insects. The preparations are designed to explain the mechanical principles involved in the link-work and leverage of the skeletal parts, the power-producing mechanism (elevator and depressor muscles) and its relation to the skeletal parts, the structure and shape of the flight membranes, and the mode of folding of the

wings when at rest. Examples will be shown, not only of animals possessing the capacity for true flight, but also of those which move through the air by scudding or parachuting down from a higher to a lower level.

(Signed) *L. Fletcher*,
Director.

British Museum (Natural History),
24 February, 1911.

Department of Zoology.

I.—*Arrangement and Conservation.*

Mammalia.

Mammal Galleries.

During the year the rearrangement of the Rodents in their new position in the Upper Gallery has been completed, with manifest advantage from the exhibition point of view, as such relatively small animals show much better in the cases in this gallery than in the larger ones below. Many of the labels have also been reprinted, as it was found by experience that the small type selected by Sir William Flower for the smaller specimens was difficult to read. Many of the descriptive labels in both galleries have also been reprinted, in order to bring them up to date.

In the Lower Mammal Gallery little has been required in the way of rearrangement; the most important alterations being the fitting of partitions in the big Sheep case and in the Wild Goat case, for the purpose of displaying specimens in a better light than was previously possible.

In the East Corridor the Rhodesian Giraffe presented by Mr. Thornicroft has been put in position in the big case at the top of the staircase, and the ground-work has been rearranged. It was hoped that this would only involve the removal from the case of the small Kilimanjaro Giraffe (for the exhibition of which arrangements had already been made); but when the new specimen was put in position, the case looked overcrowded, and it became necessary to remove the Nigerian Giraffe as well. The latter must therefore stand unprotected in the Corridor, until other arrangements can be made.

The additions to the Galleries during the year include the following specimens, among which special attention may be directed to the Gribble Island Bear, the Shen-si Takin, and the Rhodesian Giraffe:—A Gribble Island White Bear (*Ursus kermodei*), presented by the Government of British Columbia. Head of Ankole Buffalo (*Bos caffer radcliffei*), presented by H. G. Barclay, Esq. Head of Senegambian Buffalo (*Bos caffer planiceros*), the gift of G. Fenwick Owen, Esq. Heads of an Afghan Urial (*Ovis vignei blanfordi*) and a Cabul Markhor (*Capra falconeri megaceros*), from Chitral, presented by Captain R. A. Lyall. Head of Suleman Markhor (*Capra falconeri jerdoni*), presented by Major R. L. Kennion. A complete specimen of the new Shen-si Takin (*Budorcas bedfordi*), the gift of the Duke of Bedford, K.G. A Weyns's Duiker (*Cephalophus weynsi*), presented by Dr. C. C. Christy. A Phillips' Dik-dik (*Madoqua phillipsi*), presented by Dr. R. E. Drake-Brockman. A Four-horned Antelope (*Tetraceros quadricornis*), given by the Bombay Natural History Society. Head

of horned female Klipspringer (*Oreotragus saltator schillingsi*), presented by Captain W. H. Wilkin. Skulls and horns of Red-fronted Gazelle (*Gazella rufifrons*), Heuglin's Gazelle (*Gazella tilonura*), and Isabelle Gazelle (*Gazella isabella*), presented by W. B. Cotton, Esq. Frontlets and horns of Persian Gazelle (*Gazella subgutturosa*) and Palestine Gazelle (*Gazella merrilli*), presented by Mrs. Guy Bethell. Skull of Bongo (*Boöcercus euryceros*), the gift of R. K. Gibbons, Esq. A brindled Gnu (*Connochætes taurinus*), presented by L. A. Walker, Esq., C.M.G. (at the request of the Earl of Selborne, K.G.). A Rhodesian Giraffe (*Giraffa camelopardalis thornicrofti*), presented by H. S. Thornicroft, Esq. Frontlet and horns of Pampas Deer (*Dorcelaphus bezoarticus*), presented by Sir Arthur Warren, K.C.B. A series of frontlets and antlers of the Roebuck (*Capreolus caprea*), from Bavaria, presented by F. N. A. Fleischmann, Esq.

The only important additions by purchase are a Brazilian Tapir (*Tapirus terrestris*), and a remarkably fine skull, with the horns, of a South African White Rhinoceros (*Rhinoceros simus*).

Whale-Room.—Continued progress has been made with the work of replacing the unsightly mounted skins of Porpoises and Dolphins by coloured plaster models. This has made available a considerable amount of space in the wall-cases at the South end of the Gallery, in which the skulls of the Beaked Whales have been arranged; this transference having also set several glass table-cases at liberty.

Study Series:—

The usual work of labelling, registering, and incorporating the mammals added to the collection has been continued.

Three cabinets for storing small Mammal skins and one cabinet for the skulls of small Mammals have been added. A block of six cabinets for storing medium-sized Mammal skins has recently been placed in the Upper Mammal Gallery. The collections of Carnivora and Marsupials have been rearranged, and the entire collection of Rodents (excepting the Hares and Rabbits) is now arranged in the New Room.

The Department is again much indebted to volunteer helpers for valuable assistance in working out new forms of Mammals. The following gentlemen should be specially mentioned in this connection:—Mr. R. C. Wroughton, Dr. Knud Andersen, Dr. R. E. Drake-Brockman, Dr. Einar Lönnberg, Professor Angel Cabrera, and Major G. E. H. Barrett-Hamilton.

The services of Dr. Knud Andersen have been continued for the preparation of the new Catalogue of Chiroptera, the first volume of which will be published in 1912.

The printing of Mr. Gerrit S. Miller's Catalogue of the Mammals of Western Europe is nearly completed.

The arrangement of the skeleton collection in the Osteological Room has made good progress. The skulls of several Whales

have been suspended from the ceiling to economize the floor-space; and iron bands have been placed round the pillars to serve as supports for large skulls and horns. New cabinets have been added for the reception of the Ungulate skeletons. The skeleton of "Persimmon" exhibited in the North Hall has been remounted. A cast of a dissection of the Paddle of the Pilot-Whale has been made and placed in the Whale Gallery. This appears to be the best means of displaying such specimens with the bones accurately in position; and it is proposed to add other specimens to the series as opportunity occurs.

Additions of special interest to the Osteological and Anthropological Collections:—The face-mask and hand of a Bushman 104 years old, taken during life, presented by Thackeray Edwards, Esq. Eleven skulls of natives from the Mimika River, presented by the British Ornithologists' Union Expedition to New Guinea. 10 human skulls, mostly African, but including one Guanche and one deformed skull from Vancouver, presented by the Royal Artillery Institution, Woolwich. A male and female Roe-deer, *Capreolus caprea*, given by the Duke of Buccleuch, K.G. The skeleton of an Arab pony, "Little Joker," given by the President, Bombay Veterinary College. A skeleton of *Balæna biscayensis*, obtained as a result of the efforts of R. C. Haldane, Esq. A specimen of the "Black-fish," Ca'ing Whale, or Pilot-Whale, *Globicephalus melas*, and a skull of the Lesser Rorqual, *Balænoptera rostrata*, presented by the President of the Board of Trade. A Panda, *Æluropus fulgens*, given by the Zoological Society of London. A Solid-hoofed Pig, the present of the Hon. N. C. Rothschild.

Domesticated Animals.

North Hall.—As the result of Mr. Lydekker's special (private) studies of Domesticated Horses, Cattle, and Sheep, it has been found practicable to make numerous redeterminations in the specimens of these groups exhibited in the North Hall, and this has involved the reprinting of many of the labels, which has, of course, rendered the corresponding references in the "Guide-book" to this section of the Museum out of date.

The additions to the domesticated series include the following:—Skull and horns of Cape Trek Ox, presented by the Administration of British Bechuanaland. Head of Khatiawar Buffalo, presented by H.H. the Nawab of Junagahr. An Indian Dumba Sheep, presented by the Duke of Bedford, K.G. A Punjabi Goat, presented by V. H. Woodley, Esq. A Jamnapari Goat, presented by the Agricultural Department of India. A Solid-hoofed Pig, presented by the Hon. N. C. Rothschild. A Siamese Cat, presented by Mrs. Windham Holley. Skull of an albinistic Pekinese Spaniel, presented by G. Nettleship, Esq.

The abnormality series has been augmented by a particoloured Mole, presented by C. Dawson, Esq.

Aves.

The remounting of the series of Birds in the General Gallery has been continued and the old and faded specimens of the Families Dendrocolaptidæ, Cotingidæ, and Pipridæ have been replaced by finely mounted examples.

The rearrangement and relabelling of the Gould collection of Humming-Birds has been continued.

The preparation of the fifth volume of the "Catalogue of the Collection of Birds' Eggs," by Mr. W. R. Ogilvie-Grant, has been completed.

A general Index to the five volumes of the Handlist of Birds is in the press, and will be issued early in 1912.

Lists of Birds believed to require protection in certain British Colonies and Protectorates have been prepared for the information of the Colonial Office.

The collection of skins in cabinets has been carefully examined, drawer by drawer, or box by box, to ascertain if there is any trace of moth or beetle among them. About half the cabinets have been inspected in this way and camphor has been placed in each drawer.

Great assistance has been received from Mr. David A. Bannerman, who has been engaged in working out various collections, in labelling a number of old collections, and in preparing them for incorporation.

The Committee appointed by the Secretary of State for the Colonies to inquire into the question of the destruction of Plumage Birds, including Mr. C. E. Fagan, Dr. Harmer, and Mr. W. R. Ogilvie-Grant, to represent the Museum, have completed their investigations, but have not yet issued their report.

The more notable presents are the following:—From the Subscribers to the British Ornithologists' Union Expedition to Dutch New Guinea: A large series of Birds which are of great zoological importance, and form a gift, the value of which can scarcely be over estimated. The magnificent collection of African Birds formed by the late Mr. Boyd Alexander, during his various Expeditions, and given in accordance with his wish to the Trustees, has been handed over by his executors. It includes the types of eighty-four species described by him, and numbers in all four thousand seven hundred and ninety-eight specimens. From Captain E. C. Hardy, R.N.: A valuable collection of Birds [in addition to Mammals and Insects] formed by Mr. Willoughby P. Lowe, who accompanied H.M.S. "Mutine" as naturalist. Captain Hardy was engaged in carrying out a magnetic survey from the Cape of Good Hope to Sierra Leone, and invited Mr. Lowe to join him as his guest for the purpose of collecting specimens for the Natural History Museum. From Mr. G. Blaine: A valuable collection of Birds formed during his travels in Equatorial Africa. From the Grouse Disease

Inquiry Committee: A large series of Grouse, Black Game, and Ptarmigan, including many interesting phases of plumage and valuable varieties.

Reptilia, Batrachia, Pisces.

All additions have been registered, and, with a few exceptions, named and incorporated in the collection.

In the Reptile Gallery, a glass table-case from the Whale-Room has been utilised for the exhibition of two additional specimens of Giant Tortoises, taken from the store-collection. The only other additions to this gallery are a Brazilian Tortoise (*Testudo tabulata*), presented by F. V. McConnell, Esq.; and a coloured plaster-cast of a West African Python, the gift of Rowland Ward, Esq.

In the Study Series the renewal of the spirit has been proceeded with, and the work of rearranging the stuffed specimens, skeletons, and skins in the basement of the main building has been completed.

A number of skeletons, mostly of Fishes, has been added to the collection.

The second volume of the Catalogue of African Freshwater Fishes has been published, and considerable progress has been made with the MS. and figures for the third and last volume.

Tunicata.

The Tunicata have been removed to a large new wall-case on the West side of the Shell Gallery.

Mollusca.

The following is the principal work done during the year in connection with the collection of Mollusca.

The specimens from South Africa belonging to the genus *Phasianella* have been worked out, and a new species described. The working out of the large collection of land, freshwater, and marine shells made at Bermuda by Major A. J. Peile, R.A., has been continued, and in connection with this work many West Indian forms have been studied and determined. A small collection of marine shells from Christmas Island, obtained by Mr. R. Kirkpatrick, has been worked out, and some new species described. A report has been prepared, illustrated with eight plates, upon some gigantic oysters found buried beneath the streets of Calcutta, and on other specimens from the shores of Cuttack and Mergui. The species of *Thala*, a group of the family Mitridæ, have been determined. A selection has been made from a collection of marine shells from Bombay, the specimens being named and mounted, and a new species of the genus *Acmæa* described. A series of figured specimens from the collection of the late Sylvanus Hanley have been identified, and the shells obtained by the British Ornithologists' Union

Expedition to New Guinea have been determined. A collection of types of land shells from South Africa has been checked, and a small series of marine species from that part of the world has been worked out, and some new species described.

The species of the family Acmæidæ have been critically examined and determined. A model has been prepared illustrating "torsion" in the Gastropoda. A show-case has been erected upon the screen at the North end of the Shell Gallery to contain specimens too large for the table-cases. Of the numerous acquisitions, a selection has been mounted and placed on exhibition. The mounting and arrangement of the Blanford and Godwin-Austen collections of Indian land shells have been continued by Lt.-Colonel H. H. Godwin-Austen, F.R.S.; and the large collection of palæarctic Mollusca, purchased from Canon A. M. Norman, F.R.S., and consisting of many thousands of specimens, has been received and its registration commenced. The other numerous acquisitions have all been registered mounted, and incorporated.

Insecta.

In the Insect Gallery the arrangement of the Rhynchota and Diptera in the table-cases has been completed, and a commencement has been made with the arrangement of the wall-cases on the West wall. The spirit in the various exhibits has been renewed where necessary.

Enlarged models of the Plague-Flea have been placed in the Central Hall, and the Tsetse Fly exhibit in the same part of the Museum has been revised, increased, and relabelled.

In the COLEOPTERA the valuable collection of Curculionidæ from Mexico and Central America, which was worked out and named by Mr. G. C. Champion, and presented by Mr. F. D. Godman, F.R.S., has been the most important addition made during the year. Considerable additions have also been made by the purchase of further portions of the Lewis collections of Japanese and Ceylonese beetles and of the Blackburn collection of Australian types; and by the presentation, by Guy R. G. Nevinson, Esq., of the fine collection of Cicindelidæ formed by the late Mr. F. Bates. The greater part of the family Lucanidæ has been rearranged during the year and the numerous accessions from all sources have been incorporated. A large number of species belonging to the genera *Anomala* and *Adoretus* (family Scarabæidæ) have been submitted to Dr. Ohaus and determined by him; and others have been determined by comparison with types belonging to the Museums of Paris, Berlin, Halle, and Genoa.

Undetermined species of the genera *Heterogomphus, Onthophagus* and *Bolboceras* have been determined by Herr H. Prell, M. d'Orbigny, and M. Boucomont respectively, and incorporated in the collection; and many species of Aphodiinæ have been determined by Herr Adolf Schmidt. Part of the

Lamellicornia of the Lewis collection from Japan have been incorporated.

Progress has been made with the rearrangement of the Tenebrionidæ, including the incorporation of specimens from the Bates, Sharp, Fry, and Godman-Salvin collections; and a large consignment of the South African species of the earlier groups has been sent to Cape Town to he worked out by Mr. L. Péringuey. A large number of Meloidæ, returned after determination by Dr. Creighton Wellman, have been incorporated.

Collections of undetermined Curculionidæ from Australia and from New Guinea and the Malayan Region respectively have been worked out by Mr. Arthur Lea and Dr. K. Heller and subsequently rearranged. The American species of *Apion* have been determined or described by Herr Wagner and, on their return, have been arranged in the collection. The Oriental and Australian species have also been sent to him for determination.

The thanks of the Department are due to Lt.-Col. F. Winn Sampson, who has given valuable assistance by devoting much time to the determination and arrangement of the Scolytidæ, and has incorporated the many specimens of this family included in the Lewis collection from Japan and Ceylon.

The collection of African Longicornia, presented by the Hon. W. Rothschild, F.R.S., as well as several other minor additions to this group of beetles, have been incorporated in the general collection.

M. Ernest Olivier has named and returned several species of Oriental and Australian Lampyridæ and Rhagophthalmidæ sent to him for determination; and M. P. Lesne, of the Paris Museum, has rendered similar service in regard to African and other species of Bostrichidæ.

The incorporation in the general collection of the collection of European Coleoptera, which had been gradually taking place during past years, was this year hastened on, and completed, in order to make the cabinets which they occupied available for other purposes.

In the HYMENOPTERA the rearrangement of the Apidæ has been continued, and all accessions from the Saunders, Farren White, and other collections incorporated. The arrangement of the Ichneumonidæ of the general collection has been proceeded with by Mr. Claude Morley, the Tribes Ophionides and Metopiides have been entirely revised and considerable progress has been made with the Paniscinæ. Mr. R. E. Turner, as in former years, has devoted much time to work at the collection, and has completed the arrangement of the Sphegidæ, and commenced the expansion of the Pompilidæ. The collection of British Ants has been expanded and revised.

Various consignments have been sent on loan to specialists, who have in all cases determined the specimens sent, and in many instances described new species; these include consignments of Sphegidæ to Dr. F. F. Kohl, of Vienna, and of Vespidæ to Vicomte du Buysson, of Paris.

Among the NEUROPTERA, the Odonata of the Godman-Salvin collection have been received and placed with the general collection. A large loan of Termitidæ has been returned by M. Nils Holmgren, of Stockholm; loans of Myrmeleonidæ and Calopteryginæ have also been sent out, some of which are still in process of determination.

The RHYNCHOTA have received an important addition by the purchase of the Cicadidæ of the Distant collection. The incorporation of these with the Cicadidæ of the general collection has been commenced, and has necessitated an entire rearrangement of the family. Several collections of Rhynchota from Australia, the Aru and Solomon Islands, and from Tropical America have been received during the year, and have been worked out and incorporated in the general collection.

The MALLOPHAGA, ANOPLURA, and other parasitic insects have been attended to, with the object of making them more readily accessible and better fitted for examination. The spirit specimens have all been placed in glass tubes, which have been arranged in a deep-drawer cabinet adapted for holding the tubes; and many of the specimens, both dry and from spirit, have been prepared and mounted as microscopic slides. The Hon. N. Charles Rothschild has generously provided for assistance in carrying out this work of preparation.

In the LEPIDOPTERA considerable progress has been made in transferring the Lycænidæ from the old to the new pattern cabinets, and in the incorporation and arrangement at the same time of the specimens belonging to that family contained in the Godman-Salvin, Hewitson, and other collections. This work has been carried out by Mr. R, South. The transference of Pierinæ into the new glass-bottom drawers has been completed; the Papilioninæ have been expanded, and a commencement has been made with the rearrangement of the Satyrinæ.

During the year 1911 the plates belonging to Vol. 10 of the Catalogue of Moths have been published, and nearly the whole of Vol. 11 dealing with the small sub-families Eutelianæ, Stictopterinæ, Sarrothripinæ, and Acontianæ has been passed through the press and the plates prepared. These sub-families have also been rearranged. The rearrangement of the Pyralid sub-family Pyraustinæ has been completed, and the families Callidulidæ, Drepanidæ, and Thyrididæ rearranged, and a large number of recent accessions incorporated.

In the Micro-Lepidoptera the rearrangement of the Gelechiadæ, Oecophoridæ, etc., in connection with work on the Neotropical genera of these families, has been continued, and

the collection of slides has been considerably augmented. Good progress has been made in remounting and transferring the British series of Tineina to other cabinets.

In the DIPTERA the Tsetse-flies (Genus *Glossina*) have been worked out afresh and redescribed (with the addition of matter relating to Bionomics, Distribution, etc.), and the results of the revision have been published by the Museum as "A Handbook of the Tsetse-Flies (Genus *Glossina*)"; the *Glossina* material in the Museum Collection has been rearranged in accordance therewith.

The family Nemestrinidæ has been rearranged, and all material belonging thereto, returned by Herr B. Lichtwardt after determination by him, has been reincorporated.

The sub-family Cerioidinæ (fam. Syrphidæ) has been worked out and rearranged, and the rearrangement of the sub-family Anthracinæ (fam. Bombyliidæ) has been commenced.

New genera and species of Tabanidæ and Hippoboscidæ recently received from various parts of Tropical Africa and from Madagascar have been described.

The family Culicidæ has been rearranged, and the whole collection of microscope-slides illustrating their structure has been arranged. A large collection of Indian *Anopheles* has been mounted and incorporated, and a number of collections of African Culicidæ and other Blood-sucking flies have been worked out and incorporated.

The collections of British Syrphidæ, Platypezidæ, Pipunculidæ, and Conopidæ have been expanded, and part of the collection of British *Simulium* has been sent to Mr. P. H. Grimshaw for redetermination.

A large number of inquiries from various parts of the world concerning Diptera of economic or medical importance have been dealt with.

Entomological Research Committee.

As one of the results of the work carried on by the Entomological Research Committee of the Colonial Office, more than 30,000 specimens, many representing species of considerable economic importance, have been added to the Insect collections of the Museum during the year. The importance of the work, and the benefits accruing from it to the Museum, make it a matter of regret that more adequate accommodation could not be provided for the Scientific Secretary of the Committee and his Assistants than the two rooms allotted to their use in 1910. The congested state of the Insect Room, and the consequent want of available space, made this impossible, but the members of the Staff have continued as heretofore to give all the assistance they could to the Secretary; and most of the setting and labelling of specimens has been done by the preparators employed by the Museum.

Myriopoda and Arachnida.*

The accessions received during the year, which include large collections from Japan and Algeria, have been registered and incorporated. Reports dealing with several of the more important accessions have been published.

Dr. C. Fr. Roewer, of Bremen, has determined the Harvestmen of the sub-family Phalangiinæ in the collection and has described a number of new forms in the second part of his monograph.

Fresh camphor has been placed in all the drawers and store boxes containing the dry collections of Arachnida and Myriopoda.

A number of Myriopods, chiefly of the family Scolopendridæ, have been determined.

Crustacea and Pycnogonida.

In the exhibited series of Crustacea the large crab *Paromola cuvieri* has been repainted from a coloured sketch of a fresh specimen; a spirit preparation of a Hermit-crab and its commensals has been added; and thirty-one labels have been printed. In the Crustacea Room, numbers have been affixed to all the shelves of the cupboards containing the spirit collection, and some work has been done in re-pinning and repairing the specimens in the dry collection. A beginning has been made with a revision of the MS. catalogue of Brachyura.

The final instalment of Canon Norman's collection has been received and forms the most important addition made to the collection for many years. Until the registration of the specimens has been completed, their number cannot be stated exactly, but it is estimated at not less than 35,000. The incorporation of these with the general collection is, of course, out of the question for the present; and even their safe custody is a matter of constant anxiety under existing conditions. The drawers of the cabinets have been numbered and an index to the genera has been prepared to facilitate reference to the collection.

A large collection of Cumacea belonging to the United States National Museum has been worked out and a valuable series of duplicates selected from it. Collections from New Guinea, Christmas Island, Vancouver Island, and from telegraph cables in Eastern Seas have also been examined.

Echinoderma.†

The rearrangement of the dried study collection of Echinoderms has taken much longer than was expected, and is not

* The Assistant in charge of these sections was absent on sick-leave for two months (Feb. 6th—April 5th).

† The Assistant in charge of this and other groups has the responsibility of editing the Reports on the National Antarctic (Discovery) Expedition, 1901–4. The Sixth Volume of the Natural History Results is nearly ready and should be published early in 1912.

yet quite completed. The exhibition cases have been thoroughly cleaned, and the Starfish Gallery has been repainted. Most of the specimens obtained during the year have been determined, and all have been incorporated. The work of respiriting the specimens in alcohol has been continued, as opportunities occurred.

Worms.

The first part of Dr. J. H. Ashworth's Catalogue of Arenicolidæ has been read for press and is in course of printing. Some text-figures have been prepared, and others, with two lithographic plates, are in hand.

Four coloured plates from Prof. W. C. M'Intosh's Monograph of British Annelids have been mounted and supplied with descriptive labels; these figures are of remarkable beauty.

The systematic rearrangement of the collection of microscopic slides has been continued.

Owing to the state of congestion in the Spirit Building it is no longer possible to incorporate Polychætes in their systematic position, and for this reason the recent accessions from the Norman collection have not yet been worked through. The enlargement of the "Spirit House" is, obviously, a work of urgent necessity.

Anthozoa.

New cases were supplied for the study collections of dry Corals too late in the year for any use to be made of them; it is hoped soon to be able to set out the large study collection of Fungiidæ.

The exhibition cases in the Public Gallery have been thoroughly cleaned, and the specimens rearranged.

Progress has been made with the MS. Catalogue of Pennatulids, but it has not yet been possible to complete it.

As so-called large Corals continue to be offered for purchase, it may be well to state that only exceptionally handsome Corals will be considered when offered on account only of their size.

Porifera.

Work done during the year has comprised the conservation, arranging, partial determination and incorporation of accessions.

The collection of sponges dredged by Mr. R. Kirkpatrick off Christmas Island has been sorted and investigated.

A fully illustrated report has been written on the remarkable organism *Astrosclera willeyana*, Lister, which Mr. Kirkpatrick believes to be a siliceous Ectyonine sponge living in symbiosis with a degenerate Red Alga.

II.—*Duplicates and Exchanges.*

(*a*) *Duplicates.*

Duplicates have been distributed among museums, scientific institutions, etc., as follows :—

Aves.—Borough Museum, Battersea; Berlin Museum; Central Public Library and Museum, Bootle, Lancashire; South African Museum, Cape Town; National Museum of Wales, Cardiff; Royal Scottish Museum, Edinburgh; Huddersfield Museum; Central Free Public Library, St. Helens; Salisbury Museum; Grey Coat Hospital, Westminster; Mr. J. H. Fleming; and the Hon. Walter Rothschild, F.R.S.

Reptilia, Batrachia, Pisces.—National Museum of Wales, Cardiff; Hull Museum; Londonderry Museum; Professor J. W. Spengel.

Mollusca.—Mr. C. J. Gabriel.

Insecta.—National Museum of Wales, Cardiff; National Museum of Ireland, Dublin; the Imperial College of Science and Technology, London; Professor G. H. F. Nuttall, F.R.S., University of Cambridge. Duplicates have also been sent to the following gentlemen who have assisted in naming specimens :—Dr. K. M. Heller, Dr. F. F. Kohl, Mr. A. M. Lea, M. Pierre Lesne, Herr B. Lichtwardt, Señor R. P. Longinos Navás, S. J., Dr. F. Ohaus, M. Ernest Olivier, Herr Heinrich Prell, Herr Adolf Schmidt, Professor Y. Sjöstedt, Professor O. Taschenberg, Herr H. Wagner, and Dr. Creighton Wellman.

(*b*) *Exchanges.*

Exchanges have been made with the following institutions and individuals :—

Mammalia.—With the Albany Museum, Grahamstown; the St. Petersburg Museum; the Santiago Museum; the Turin Museum; Professor F. Förster; and Messrs. Rowland Ward, Ltd.

Aves.—With the Berlin Museum; the Royal Scottish Museum, Edinburgh; the Tring Museum; Mr. J. H. Fleming; and Mr. G. M. Mathews.

Reptilia and Batrachia.—With Dr. J. C. Thompson.

Pisces.—With the Paris Museum, and with Professor Bashford Dean.

Mollusca.—With the Santiago Museum (in addition to a few other Invertebrates); and with Mr. C. J. Gabriel.

Insecta.—With the University Museum of Zoology, Cambridge; and with Mr. C. F. Baker, Mr. E. C. Bedwell, Herr C.

Felsche, Mr. O. E. Janson, Mr. A. M. Lea, Dr. F. Netolitzky, Mr. F. W. Nunenmacher, Dr. F. Ohaus, and the Hon. Walter Rothschild, F.R.S.

Myriopoda.—With Professor F. Silvestri.

Arachnida.—With the Indian Museum, Calcutta.

Crustacea.—With the Basel Museum; the Indian Museum, Calcutta; and the Munich Museum.

Polyzoa.—With the Australian Museum, Sydney.

Hydrozoa.—With the Munich Museum.

III.—*Departmental Library.*

The acquisitions during the year, obtained by purchase, presentation, and exchange, consist of 98 separate works in 139 volumes, and 1,757 parts of periodicals and works in progress.

Five hundred and forty-eight volumes, including those belonging to the Walsingham Library, have been bound.

As in previous years, the work of collating, stamping, press-marking and entering in the Catalogue all additions has been performed as usual.

The Attendant in the Library, with the aid and supervision of an Assistant, has checked the entries of the Zoological Works in the proofs of that portion of the General Catalogue of Books which has been printed during the year.

Among the donations two may be specially referred to:—Thirteen volumes of the Proceedings of the Zoological Society, presented by Oldfield Thomas, Esq., F.R.S.; and "Brandtia," a series of papers on Diplopoda and other Arthropoda, by O. F. Cook, presented by Dr. O. F. Cook.

"The Birds of Australia" (Vol. I., parts 1–5), a very important ornithological work by Mr. G. M. Mathews, has been presented by the author.

List of Donors to the Departmental Library during the year 1911:—

Agricultural Research Institute, Pusa, Bengal.
Arenander, E. O.
Arrow, G. J.
Australian Museum, Sydney.
Avicultural Society, London.
Bergen Museum.
Board of Agriculture and Fisheries, London.
Board of Agriculture, Trinidad.
Bolas, Mrs.
British Ornithologists' Union, London.
Bruch, C.

California, University of.
Colombo Museum, Ceylon.
Commissioners of Inland Fisheries, Providence, Rhode Island.
Conchological Society of Great Britain and Ireland.
Congrès International de Chasse, Vienna.
Conseil permanent International pour l'Exploration de la Mer.
Cook, Dr. O. F.
Département de l'Agriculture, Buitenzorg.
Department of Agriculture, Madras.
Department of Agriculture, New South Wales.
Department of Agriculture, Victoria.
Department of Agriculture and Technical Instruction, Ireland.
Department of Fisheries, New South Wales.
Donne, T. E.
Entomological Research Committee, London.
Entomological Society, London.
Fagan, C. E.
Fernald, Prof. C. H.
Fisheries Bureau, Madras.
Fishery Board for Scotland.
Fletcher, T. Bainbrigge.
Flower, Capt. S. S.
Foreign Bird Club, Ashborne.
Froggatt, W. W.
Hampson, Sir G. F.
Harmer, Dr. S. F.
Hawaiian Sugar Planters' Association, Honolulu.
Herdman, Prof. W. A.
Hull Municipal Museum.
Iconnikoff, N.
Imperial Department of Agriculture, West Indies.
India, Secretary of State for.
Indian Museum, Calcutta.
James, Major S. P.
Janet, C.
Kommissionen for Havundersögelser, Kjöbenhavn.
Laboratorio di Zoologia Generale e Agraria della R. Scuola Superiore d'Agricoltura in Portici.
Ledyard, E. M.
Lewis, G.
Linnean Society, London.
Lyell, J. C.
Meek, Prof. A.
Methuen, Messrs.
Minister of Trade and Customs, Melbourne.
Moulton, J. C.
Musée du Congo Belge, Tervueren, Bruxelles.
Musée National Hungrois, Budapest.
Museum of Comparative Zoölogy, Harvard College, Boston, Mass.

Nägeli, Fräulein.
Nebraska, University of.
Nederländische Entomologische Vereeniging.
New Jersey Agricultural Experiment Station, New Brunswick.
New Mexico College of Agriculture, &c., Santa Fé.
Norman, Rev. Canon A. M.
Nuttall, Prof. G. H. F.
Outes, F. F.
Pennsylvania, University of.
Ridley, H. N.
Rothschild, Hon. N. C.
Sarasin, Dr. P.
Sasaki, Prof. C.
Schuster, G.
Sclater, W. L.
Selous, F. C.
Sherborn, C. D.
Société Entomologique de Belgique.
Société Entomologique de France.
Société Entomologique de Russie.
South African Ornithologists' Union.
Superintendent of Government Printing, Calcutta, India.
Thomas, O.
Thornhill, Lt.-Col. H. B., C.I.E.
Ungarische Ornithologische Centrale, Budapest.
United States Bureau of Fisheries, Washington.
United States Department of Agriculture, Washington.
Urich, F. W.
Vakil, R. B.
Wallace, D.
Wellcome Tropical Research Institute, Gordon Memorial College, Khartoum.
Woodward, B. B.
Wyoming, University of.
Zoological Gardens, Giza, Egypt.
Zoological Society, London.
Zoological Society, New York.
Zoological Society, Philadelphia.
Zoological Society, Tokyo.
Zoologischer Garten, Frankfurt a. Main.
Zoologisches Museum, Berlin.
Zoologische Staatssamlung, München.
Zoologiske Museum, Kjöbenhavn.

IV.—*Publications.*

In addition to the official Catalogues and other volumes published by the Trustees (*see* pp. 108-9), various reports and descriptive papers have been prepared in connection with the different branches of the collection; and have been published for the most part in scientific journals.

For the convenience of reference the following list is appended:—

Mammalia.

By Oldfield Thomas, F.R.S.:—

"Three new South-American Mammals."
Ann. Mag. Nat. Hist. (8) vii., p. 113.

"New Asiatic Muridæ." *Ib.*, p. 205.

"The Mammals of the Tenth Edition of Linnæus; an Attempt to fix the Types of the Genera and the exact Bases and Localities of the Species."
Proc. Zool. Soc., 1911, p. 120.

"The Duke of Bedford's Zoological Exploration of Eastern Asia.—XIII. On Mammals from the Provinces of Kansu and Sze-chwan, Western China." *Ib.*, p. 158.

"On New African Muridæ."
Ann. Mag. Nat. Hist. (8) vii., p. 378.

"A new Vole from Eastern Asia." *Ib.*, p. 383.

"Three New Mammals from Dutch New Guinea."
Ib., p. 384.

"On Mammals collected by the Rev. G. T. Fox in Northern Nigeria." *Ib.*, p. 457.

"New Mammals from Tropical South America."
Ib., p. 513.

"Three new African Rodents." *Ib.*, p. 590.

"Three new Mammals from the Lower Amazons."
Ib., p. 606.

"A new Kangaroo from the Northern Territory of Western Australia." *Ib.*, p. 609.

"A new Murine Genus and Species from Sind with diagnoses of three other new genera based on previously known species of 'Mus.'"
Journ. Bombay Nat. Hist. Soc., May 1911, p. 996.

"List of small Mammals obtained by Mr. G. Fenwick Owen on the Upper Gambia and in Fouta Djallon."
Ann. Mag. Nat. Hist. (8) viii., p. 118.

"New Rodents from South America." *Ib.*, p. 250.

"New African Mammals." *Ib.*, p. 375.

"Two new Eastern Bats." *Ib.*, p. 378.

"The Duke of Bedford's Zoological Exploration of Eastern Asia.—XIV. On Mammals from Southern Shen-si and Central China." Proc. Zool. Soc., 1911, p. 687.

"Three new Rodents from Kan-su."
Ann. Mag. Nat. Hist.(8) viii., p. 720.

"Four new African Carnivores." *Ib.*, p. 724.

"New Rodents from Sze-chwan collected by Capt. F. M. Bailey." *Ib.*, p. 727.

"New Mammals from Central and Western Asia, mostly collected by Mr. Douglas Carruthers." *Ib.*, p. 758.

By Guy Dollman:—

"Description of a new Genus of Molossine Bats from West Africa." Ann. Mag. Nat. Hist. (8) vii., p. 210.

MAMMALIA—*continued.*

"List of Mammals from British East Africa, obtained by Mr. Robin Kemp and presented to the British Museum by Mr. C. D. Rudd, with additional notes on Specimens collected and presented by Mr. A. Blaney Percival." *Ib.*, p. 518.

"New and interesting Mammals from East Africa." *Ib.*, viii., p. 124.

"New West African Rodents." *Ib.*, p. 257.

"A new Spiny Mouse from Somaliland." *Ib.*, p. 259.

"On *Arvicanthis abyssinicus* and allied East African Species with Descriptions of Four new Forms." *Ib.*, p. 334.

"On a new Black-tailed Rat from South Africa." *Ib.*, p. 544.

"On new Mammals from East Africa presented to the British Museum by Mr. A. Blaney Percival." *Ib.*, p. 562.

"On a new West African Squirrel presented to the British Museum by Mr. P. A. Talbot." *Ib.*, p. 733.

By R. C. WROUGHTON :—

"'The Pale Weasel' of Blanford's 'Mammalia' and a new Himalayan Vole." Journ. Bombay Nat. Hist. Soc., May 1911, p. 930.

"On a small Collection of Rodents from Lower Sind." *Ib.*, p. 1000.

"Oriental Flying Squirrels of the '*Pteromys*' group." *Ib.*, p. 1012.

"On some Local Forms of *Cephalophus natalensis*." Ann. Mag. Nat. Hist. (8) viii., p. 277.

"List of a Collection of Mammals made by Mr. A. L. Butler on the Upper Nile." *Ib.*, p. 458.

By H. C. ROBINSON and R. C. WROUGHTON :—

"Notes on Indo-Malayan Squirrels." Journ. Federated Malay States Museums. Vol. IV., No. 2., p. 166.

By R. LYDEKKER, F.R.S. :—

"On the Mountain Nyala, *Tragelaphus buxtoni*." Proc. Zool. Soc., 1911, p. 348.

"A Rare Beaked Whale." *Ib.*, p. 420.

"Age-Phases of the Rorqual." *Ib.*, p. 423.

"An African Rhinoceros Klipspringer and Gazelle." *Ib.*, p. 958.

During the year Mr. Lydekker contributed a note to *Nature* on the Rhodesian Giraffe, to which he gave a new name; proposing at the same time a second sub-specific title for another Giraffe represented by a piece of skin presented by himself to the Museum, and now exhibited in the East Corridor, near the Giraffe case.

MAMMALIA—*continued.*

By Dr. KNUD ANDERSEN :—

"Six new Fruit-bats of the genera *Macroglossus* and *Syconycteris*." Ann. Mag. Nat. Hist. (8) vii., p. 641.

By Dr. R. E. DRAKE-BROCKMAN.

"Two new Species of *Lepus*." *Ib.*, viii., p. 276.

"On Antelopes of the Genera *Madoqua* and *Rhynchotragus* found in Somaliland." Proc. Zool. Soc., 1911, p. 977.

By Professor ANGEL CABRERA :—

"On the Specimens of Spotted Hyænas in the British Museum (Natural History)." *Ib.*, p. 93.

By ERNST SCHWARZ :—

"Seven new Asiatic Mammals, with Note on the '*Viverra fasciata*' of Gmelin." Ann. Mag. Nat. Hist. (8) vii., p. 634.

Aves.

By W. R. OGILVIE-GRANT :—

"Descriptions of Eggs from South Cameroon." Ibis, 1911, pp. 479, 581.

"On a new species of Coal-Titmouse (*Parus hibernicus*)." *Ib.*, p. 548.

"On the Boyd Alexander Collection of Birds." *Ib.*, p. 573.

"On the Formosan Rose-Finch (*Carpodacus formosanus*)." Bull. B. O. C., xxvii., p. 50.

"On three male Pheasants, which had partially assumed the plumage of the female." *Ib.*, p. 54.

"Remarks on the plumage of the Red Grouse (*Lagopus scoticus*)." *Ib.*, p. 56.

"On a new species of Flycatcher (*Tarsiger elgonensis*) from British East Africa." *Ib.*, p. 57.

"On the Crossbill (*Loxia curvirostra*) nesting in Ireland." *Ib.*, p. 59.

"On a very rare Bird of Paradise (*Xanthomelus ardens*) from Dutch New Guinea." *Ib.*, p. 66.

"On a new species of Parrot (*Cyclopsittacus godmani*) from Dutch New Guinea." *Ib.*, p. 67.

"Remarks on the Black Grouse in Eclipse plumage." *Ib.*, p. 80.

"On a new species of Parroquet (*Aprosmictus wilhelminæ*) from Dutch New Guinea." *Ib.*, p. 83.

"Exhibition of two rare species of Fruit-Pigeon procured by the B. O. U. Expedition to Dutch New Guinea." *Ib.*, p. 84.

"On a British example of the North American Peregrine Falcon (*Falco peregrinus anatum*)." *Ib.*, p. 103.

"On two rare species (*Campochæra sloetii* and *Pycnopygius stictocephalus*) from Dutch New Guinea." *Ib.*, p. 104.

"On two new species of Birds (*Columba stalkeri* and *Piezorhynchus wellsi*) from Ceram." *Ib.*, p. 104.

"On a new species of Crombec (*Sylviella lowei*) from West Africa." *Ib.*, p. 105.

AVES—*continued.*

"On a new species of Cassowary (*Casuarius claudii*) from Dutch New Guinea." Bull. B. O. C., xxix., p. 25.
"On nine new species of Birds collected by the B. O. U. Expedition to Dutch New Guinea." *Ib.*, p. 25.
"On a new species of Strike (*Laniarius mufumbiri*) and a new species of Wagtail (*Motacilla wellsi*) from the Mufumbiro Volcanoes." *Ib.*, p. 30.
"On the eclipse-plumage of the Common Partridge (*Perdix perdix*)." *Ib.*, p. 39.
"On the plumage of the Common Ptarmigan (*Lagopus mutus*)." *Ib.*, p. 41.
"Obituary Notice of Mr. E. W. Oates." *Ib.*, p. 45.
Bulletin of the British Ornithologists' Club. Volumes xxvii., xxviii. (Report of the Immigration of Summer Residents), and xxix. (edited).

By C. CHUBB:—
"Description of a new Ground Wren (*Upucerthia tamucoensis*) from Southern Chile." Bull. B. O. C., xxvii., p.101.
By LORD BRABOURNE and C. CHUBB:—
"The Nomenclature of the Rheas of South America." Ann. Mag. Nat. Hist (8) viii., p. 273.

Reptilia and *Batrachia.*

By G. A. BOULENGER, F.R.S.:—
"List of the Batrachians and Reptiles obtained by Prof. Stanley Gardiner on his second Expedition to the Seychelles and Aldabra." Tr. Linn. Soc., Zool., xiv., p. 375.
"Descriptions of new Reptiles from the Andes of South America, preserved in the British Museum." Ann. Mag. Nat. Hist. (8) vii., p. 19.
"Descriptions of three new Tree Frogs discovered by Mr. A. E. Pratt in Dutch New Guinea." *Ib.*, viii., p. 55.
"Descriptions of three new Snakes discovered by Mr. G. L. Bates in South Cameroon." *Ib.*, p. 370.
"On a third collection of Reptiles and Batrachians made by Dr. E. Bayon in Uganda." Ann. Mus. Genova (3) v., p. 169.
"Description of a new Frog discovered by Signor Nello Beccari in Erythræa." *Ib.*, p. 160.

Pisces.

By G. A. BOULENGER, F.R.S.:—
"On a collection of Fishes from the Lake Ngami Basin, Bechuanaland." Trans. Zool. Soc. xviii., p. 399.
"Descriptions of three new Characinid Fishes from South-Western Colombia." Ann. Mag. Nat. Hist. (8) vii., p. 212.
"Descriptions of new Freshwater Fishes discovered by Dr. W. J. Ansorge in Portuguese Guinea." *Ib.*, p. 373.

PISCES—*continued.*

"Description of a new Fish of the genus *Polypterus* from Liberia." *Ib.*, p. 377.
"Further Descriptions of new Freshwater Fishes discovered by Dr. W. J. Ansorge in Portuguese Guinea." *Ib.*, viii., p. 57.
"Description of a new African Fish of the genus *Clarias* from Lake Rukwa." *Ib.*, p. 54.
"Descriptions of new African Cyprinodont Fishes." *Ib.*, p. 260.
"Descriptions of two new African Barbels." *Ib.*, p. 369.
"Descriptions of three new Freshwater Fishes discovered by Mr. G. L. Bates in South Cameroon." *Ib.* p. 372.
"Descriptions of four new African Fishes of the genus *Mastacembelus*." *Ib.* p. 637.
"On a third collection of Fishes made by Dr. E. Bayon in Uganda, in 1909–1910." Ann. Mus. Genova (3) v., p. 64.
"L'Etat présent de nos connaissances sur la Faune ichthyologique du Congo." Rev. Zool. Afr. i., p. 12.

By C. TATE REGAN:—

"The Anatomy and Classification of the Teleostean Fishes of the Orders Berycomorphi and Xenoberyces." Ann. Mag. Nat. Hist (8) vii., p. 1.
"The Anatomy and Classification of the Teleostean Fishes of the Order Iniomi." *Ib.* p. 120.
"The Osteology and Classification of the Teleostean Fishes of the Order Microcyprini." *Ib.*, p. 320.
"The Classification of the Teleostean Fishes of the Order Synentognathi." *Ib.*, p. 327.
The Anatomy and Classification of the Teleostean Fishes of the Order Salmopercæ." *Ib.*, p. 294.
"The Classification of the Teleostean Fishes of the Order Ostariophysi." 1. Cyprinoidea. *Ib.*, viii., p. 13.
2. Siluroidea. *Ib.*, p. 553.
"The Osteology and Classification of the Gobioid Fishes." *Ib.*, p. 729.
"On the Cirrhitiform Percoids." *Ib.*, vii., p. 259.
"On the Systematic Position of *Macristium chavesi*." *Ib.*, p. 204.
"A Synopsis of the Marsipobranchs of the Order Hyperoartii." *Ib.*, p. 193.
"A new Pœciliid Fish from the Amazon, with Notes on the Genera *Petalosoma* and *Tomeurus*." *Ib.*, viii., p. 659.
"On some Fishes of the Family Pœciliidæ." *Ib.*, p. 373.
"The Giant Pike of Loch Ken." Ann. Scottish Nat. Hist., Jan. 1911, p. 11.
"*Xiphophorus brevis* und *Xiphophorus rachovii*." Blätt. f. Aquarienkunde, xxii., p. 806.

Mollusca.

By E. A. Smith, I.S.O. :—

"Note on the animal of the genus *Cleopatra*."
Proc. Malac. Soc., ix., p 240.

"On the recent species of the genus *Vulsella*."
Ib., p. 306.

"On a new species of *Phasianella* from South Africa."
Ib., p. 313.

"List of Marine Shells occurring at Christmas Island, Indian Ocean, with descriptions of new species."
Ib., p. 315.

"Description of a new species of *Acmæa* from Bombay, and notes on other forms from that locality. *Ib.*, p. 356.

By C. D. Sherborn and E. A. Smith, I.S.O. :—

"Collation of J. C. Chenu's *Illustrations Conchyliologiques*, and a note on P. L. Duclos' *Hist. nat. gén. et part. Coquilles.* *Ib.*, p. 264.

Insecta.

By C. J. Gahan :—

"On some recent attempts to classify the Coleoptera in accordance with their Phylogeny."
The Entomologist, Apr.–Dec. 1911.

By Gilbert J. Arrow :—

"A Synoptical Revision of the Dynastid Genus *Lonchotus*." Ann. Mag. Nat. Hist. (8) vii., p. 84.

"Notes on the Lamellicorn Beetles of the Genus *Golofa*, with Descriptions of Three new Species." *Ib.*, p. 136.

"On Lamellicorn Beetles belonging to the Sub-families Ochodæinæ, Orphninæ, Hybosorinæ and Troginæ."
Ib., p. 390.

"Upon the Dynamopinæ, a new Sub-family of Lamellicorn Beetles." *Ib.*, p. 610.

"Notes on the Coleopterous Sub-family Dynastinæ, with Descriptions of new Genera and Species."
Ib., viii., p. 151.

"A new Genus of Ruteline Coleoptera from the Indian Region." *Ib.*, p. 268.

"On the Ruteline Coleoptera of Ceylon, with Descriptions of new Species." *Ib.*, p. 354.

"Some new Species of the Coleopterous Genus *Anomala* from Southern India." *Ib.*, p. 473.

By Lieut.-Col. F. Winn Sampson :—

"On two new Wood-boring Beetles (Ipidæ)."
Ann. Mag. Nat. Hist. (8) viii., p. 381.

By Sir G. F. Hampson, Bart. :—

"Moths of India. Supplement."
Journ. Bomb. Nat. Hist. Soc., 1911, pp. 634, 1046.

"Catalogue of Moths. Supplement vi."
Ann. Mag. Nat. Hist. (8) viii., p. 393.

INSECTA—*continued.*

By C. DAVIES SHERBORN and J. HARTLEY DURRANT :—

"Note on John Curtis' British Entomology, 1824–1839; 1829–1840; and 1862." Ent. Mo. Mag. XLVII., p. 84.

By J. HARTLEY DURRANT :—

"Descriptions of two new British species of *Rhyacionia* Hb. 'Lep. Tin.'" *Ib.*, p. 251.

The publication of the following series of descriptions by LORD WALSINGHAM has been continued* :—

"Biologia Centrali-Americana. Zoologia. Insecta. Lepidoptera. Heterocera."
Vol. IV., pp. 49–112, fig. 12–23, pl. 2, 3.

"Algerian Microlepidoptera (continued)."
Ent. Mo. Mag. XLVII., pp. 12, 187.

"Spanish and Moorish Microlepidoptera (continued)"
Ib., p. 212.

By GEOFFREY MEADE-WALDO :—

"New species of Diploptera in the collection of the British Museum." Part III.
Ann. Mag. Nat. Hist. (8) vii., p. 98.

"Descriptions of new species of African Diploptera in the collection of the British Museum." *Ib.*, viii., p. 445.

"Notes on the Family Masaridæ (Hymenoptera), with descriptions of a new genus and three new species."
Ib., p. 747.

By ROLAND E. TURNER :—

"Notes on Fossorial Hymenoptera." III.
Ib., vii., p. 297.

" " " " IV.
Ib., vii., p. 479.

" " " " V.
Ib., viii., p. 602.

"Fossorial Hymenoptera from the Seychelles and other Islands in the Indian Ocean."
Trans. Linn. Soc. (2) xiv., p. 267.

"New Hymenoptera from Ceylon, Mutillidæ and Scoliidæ." Spolia Zeylanicâ. vii., p. 141.

By E. E. AUSTEN :—

"On Tabanidæ collected in North-Eastern Rhodesia and Katanga, Congo Free State, by Dr. S. and Mr. S. A. Neave, with Descriptions of New Species. Part 1.—Pangoniinæ." Bull Ent. Res. i., p. 275.

"A New Species of *Tabanus* from the Anglo-Egyptian Sudan." *Ib.*, p. 291.

"A New Species of Tsetse-Fly allied to *Glossina palpalis*, Rob.-Desv." *Ib.*, p. 294.

"On the Occurrence in North America of the European *Eristalis æstraceus*, L." Ent. Mo. Mag. (2) xxii., p. 63.

*Prepared for publication by Mr. Durrant by permission of the Trustees.

INSECTA—*continued.*

"Three New African Species of the Genus *Chrysops* (Family Tabanidæ)." Bull. Ent. Res. ii., p. 161.
"New African Hippoboscidæ." *Ib.*, p. 169.
"Two new Species of *Tabanus* from the Anglo-Egyptian Sudan." *Ib.*, p. 173.

By F. W. EDWARDS :—

"On the Culicid genus *Eretmapodites*, Theobald." Ann. Mag. Nat. Hist. (8) viii., p. 67.
"On some *Tipulidæ* (*Limoniinæ*) from Ceylon in the British Museum Collection, with Descriptions of eight new species." *Ib.*, p. 58.
"On the so-called new Tipulid Sub-family Ceratocheilinæ, Wesché." *Ib.*, p. 279.
"Some new West African species of *Anopheles* (*sensu lato*), with notes on Nomenclature." Bull. Ent. Res. ii., p. 141.
"The African species of *Culex* and allied genera." *Ib.*, p. 241.

By W. L. DISTANT :—

"Rhynchotal Notes. LIII. Neotropical Pentatomidæ." Ann. Mag. Nat. Hist. (8) vii., p. 242.
"Rhynchotal Notes. LIV. Pentatomidæ from various regions." *Ib.*, p. 338.
"Rhynchotal Notes. LV. Australian Coreidæ and Berytidæ." *Ib.*, p. 576.
"New Genera and Species of Cicadidæ." *Ib.*, viii., p. 132.
"Rhynchota from the Solomon Islands." *Ib.*, p. 384.
"Rhynchota from the Aru Islands." *Ib.*, p. 389.
"New Genera and Species of Oriental Homoptera." *Ib.*, pp. 639 and 735.
"Rhynchota Indica." The Entomologist, 1911, pp. 22, 104, 213, 269, 310.

Myriopoda.

By S. HIRST :—

"A new Termitophilous Millipede from Bengal." Ann. Mag. Nat. Hist. (8) viii., p. 256.

Arachnida.

By S. HIRST :—

"Scorpions and Solifugæ collected by Capt. S. S. Flower in the Anglo-Egyptian Sudan." *Ib.*, vii., p. 217.
"On a new Pedipalp from Burma." *Ib.*, viii., p. 380.
"Descriptions of new Scorpions." *Ib.*, p. 462.
"On some new Opiliones from Japan and the Loo-Choo Islands." *Ib.*, p. 625.
"The Araneæ, Opiliones and Pseudoscorpiones collected by the Percy Sladen Trust Expedition to the Indian Ocean." Trans. Linn. Soc, (2) XIV., p. 379.

ARACHNIDA—*continued.*

"On a collection of Arachnida and Chilopoda, made by Mr. S. A. Neave in Rhodesia, North of the Zambesi."
Mem. Manchester Lit. & Phil. Soc. lvi., Pt. i., No. 2, p. 1.

The following paper is based to a large extent on material in the British Museum :—

By C. Fr. ROEWER :—

"Übersicht der Genera der Sub-familie der Phalangiini der Opiliones Palpatores nebst Beschreibung einiger neuer Gattungen und Arten."
Arch. f. Naturg., Suppl. (1911), p. 1.

Crustacea.

By Dr. W. T. CALMAN :—

"On New or Rare Crustacea of the Order Cumacea from the Collection of the Copenhagen Museum. Part 2."
Trans. Zool. Soc. xviii., p. 341.

"Note on a Crayfish from New Guinea."
Ann. Mag. Nat. Hist. (8) viii., p. 366.

"An Epizoic Hydroid on a Crab from Christmas Island."
Ib., p. 546.

The following papers are based on material in the British Museum :—

By A. O. WALKER :—

"On *Gammarus campylops*, Leach." *Ib.*, vii., p. 397.

Chætopoda.

By Dr. LUIGI COGNETTI DE MARTIIS :—

"A Contribution to our Knowledge of the Oligochæta of Travancore." *Ib.*, p. 494.

"Description of a new species of the Genus *Polytoreutus*." *Ib.*, p. 507.

"Description of a new species of the Genus *Perionyx*." *Ib.*, ix., p. 67.

Hirudinea.

By W. A. HARDING :—

"Note on a new Leech (*Placobdella ægyptiaca*) from Egypt." *Ib.*, vii., p. 388.

Echinoderma.

By AUSTIN H. CLARK :—

"A new Crinoid Genus from the Indian Ocean."
Proc. Biol. Soc. Washington, XXIV.

"A new Unstalked Crinoid from Christmas Island."
Ann. Mag. Nat. Hist. (8) vii., p. 644.

Anthozoa.

By Professor SYDNEY J. HICKSON, F.R.S. :—

"On a specimen of *Osteocella septentrionalis* (Gray)."
Mem. Manchester Lit. & Phil. Soc. lv., Pt. iii.

Porifera.

By R. KIRKPATRICK :—

"On *Merlia normani*, a siliceo-calcareous sponge."
Quart. Journ. Micr. Sci. lvi., p. 657.

"On a new Lithonine Sponge from Christmas Island."
Ann. Mag. Nat. Hist. (8) viii., p. 177.

V.—*Acquisitions.**

MAMMALIA.

The additions to this class during the past year number four thousand two hundred and thirty-one, of which the following are most worthy of note :—

Special attention may be directed to the Duke of Bedford's Collection from China, Mr. C. D. Rudd's Collection from British East Africa, Mr. Fenwick Owen's Collection from West Africa, the Collection from Amboina and Dutch New Guinea presented by the Subscribers to the British Ornithologists' Union Expedition to Dutch New Guinea, and Major G. E. H. Barrett-Hamilton's European Collection.

From various localities.

Face-mask and hand (Plaster cast) of Bushman, 104 years old. Taken during life ; *presented by Thackeray Edwards, Esq.*

Eleven skulls of natives from the Mimika River, New Guinea ; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

Ten skulls of African, Guanche, Vancouver Island and New Zealand natives ; *presented by the Royal Artillery Institution, Woolwich.*

Europe.

The skeleton of an adult male Ca'ing Whale or Pilot Whale (*Globicephalus melas*) and the head of a fœtus of the same species, from Penzance ; and the skull of a Lesser Rorqual, from Aberystwyth ; *presented by the President of the Board of Trade.*

A skeleton of the Black Right Whale from off Shetland.

Two semi-albino Moles from Sussex ; *presented by Charles Dawson, Esq.*

Eleven Mammals from St. Kilda; *presented by W. Eagle Clarke, Esq.*

Eight Voles from Sanday, Orkney Islands ; *presented by W. R. Ogilvie-Grant, Esq.*

* A table showing the number of specimens added during the year is given on page 158.

MAMMALIA—*continued.*

Two Roe-deer from Dumfriesshire; *presented by His Grace the Duke of Buccleuch, K.G.*

A fœtal Moufflon [Corsica]; *presented by the Zoological Society of London.*

One hundred and sixty mammals from Europe; *presented by Major G. E. H. Barrett-Hamilton.*

Eighteen mammals from France and Russia; *presented by the Hon. N. C. Rothschild.*

Three specimens of a rare Shrew (*Pachyura etrusca*) from Spain; *presented by Abel Chapman, Esq.*

Fifteen mammals from Hungary; *presented by the Hon. Mrs. Charles Rothschild.*

Asia.

Twelve mammals from Palestine; *presented by the Hon. N. C. Rothschild.*

A Panda [Nepal]; *presented by the Zoological Society of London.*

Thirteen mammals from the Punjab; *presented by Major H. N. Dunn.*

Ten mammals from India; *presented by R. S. Pearson, Esq.*

Ten mammals from India; *presented by R. C. Wroughton, Esq.*

Twenty-five mammals from Southern Bombay; *presented by G. S. Hardy, Esq. I.C.S.*

Twelve mammals from Bombay; *presented by E. Comber, Esq.*

Sixty-one mammals from India; *presented by the Bombay Natural History Society.*

An Arab Pony, "Little Joker"; *presented by the Principal, Bombay Veterinary College.*

A rare Langur from Ceylon; *presented by Mrs. Bell.*

Nine mammals from Sze-chwan; *presented by Capt. F. M. Bailey.*

Five mammals from Sze-chwan; *presented by W. N. Fergusson, Esq.*

Six mammals from Yunnan; *presented by E. B. Howell, Esq.*

Four hundred and sixteen mammals from China, collected by Mr. M. P. Anderson; *presented by His Grace the Duke of Bedford, K.G., F.R.S.*

Nine mammals from China, collected by Dr. J. A. C. Smith; *presented by the Hon. N. C. Rothschild.*

MAMMALIA—*continued.*

Eleven mammals from Sarawak; *presented by C. J. Brooks, Esq.*

Eight mammals from Sarawak; *presented by the Sarawak Museum.*

Head of a fœtal Banting [Java]; *presented by the Zoological Society of London.*

Africa.

Two Bats from Egypt and the Blue Nile; *presented by the Egyptian Government Zoological Gardens.*

The type of a new Otter from the White Nile; *presented by the Rev. Archibald Shaw.*

Seventy mammals from Somaliland; *presented by Dr. R. E. Drake-Brockman.*

Four mammals from the Bahr-el-Ghazal; *presented by F. C. Selous, Esq.*

Sixty mammals from Ruwenzori and the Bahr-el-Ghazal; *presented by G. Blaine, Esq.*

Ninety mammals from the Bahr-el-Ghazal, collected by A. L. Butler, Esq.

Thirty-two mammals from British East Africa; *presented by S. L. Hinde, Esq.*

A monkey (*Erythrocebus whitei*) from British East Africa, new to the collection; *presented by Miss Trehawke Davies.*

Three hundred and sixty mammals from British East Africa, collected by Mr. Robin Kemp; *presented by C. D. Rudd, Esq.*

Ten mammals from Toro, East Africa; *presented by Dr. R. A. L. van Someren.*

Seven hundred and forty mammals from Uganda and British East Africa, collected by Mr. Robin Kemp.

Forty mammals from Rhodesia, British and German East Africa, and Uganda; *presented by the Entomological Research Committee.*

Seventeen mammals from West Nyasaland; *presented by T. H. Lloyd, Esq.*

Twelve mammals from North Eastern Rhodesia; *presented by the Hon. Walter Guinness.*

Five mammals from Katanga; *presented by Dr. F. O. Stohr.*

Twelve mammals from South Africa and the Bahr-el Ghazal; *presented by the Zoological Society of London.*

Sixteen mammals from the Congo, collected by the Rev. H. M. Whiteside.

MAMMALIA—*continued.*

Twenty-four mammals from Cameroon and Principe Island; *presented in accordance with the wish of the late Mr. Boyd Alexander.*

Eighteen mammals from Cameroon, collected by Mr. G. L. Bates.

Eight mammals from Northern Nigeria; *presented by Douglas Cator, Esq.*

Twelve mammals from Northern Nigeria; *presented by P. A. Talbot, Esq.*

Sixty-six mammals from the Gold Coast; *presented by Dr. H. G. F. Spurrell.*

Twenty-six mammals from Liberia and the Gold Coast, collected by Willoughby P. Lowe, Esq.

Thirty-six mammals from Liberia, collected by Mr. R. H. Bunting.

Six mammals from the French Gambia; *presented by F. Russell Roberts, Esq.*

Eight mammals from the Gambia; *presented by E. Hopkinson, Esq.*

One hundred and fifteen mammals from the French Gambia; *presented by G. Fenwick Owen, Esq.*

The type of a new Rodent-Mole from the French Shari Protectorate; *presented by Dr. H. Karl W. Kumm.*

America, North.

Two Solid-hoofed Pigs (domestic); *presented by the Hon. N. C. Rothschild.*

A fœtal Sea-Lion [California]; *presented by the Zoological Society of London.*

America, South.

Ten mammals from Tolima, Colombia; *presented by H. H. Crease, Esq.*

One hundred and ninety mammals from Northern Venezuela.

Two mammals from Venezuela; *presented by Hugo Pam, Esq.*

Seventy-four mammals from British Guiana; *presented by F. V. McConnell, Esq.*

A Tamarin from Pará; *presented by Mrs. Hulton.*

Seventy-seven mammals from Ceara, the Lower Amazons and Tocantins; *presented by the Goeldi Museum, Pará.*

Eight mammals from Paraguay and Brazil; *presented by G. W. Tudor, Esq.*

Twenty-three mammals from Paraguay, Patagonia and the Argentine Republic; *presented by the Hon. N. C. Rothschild.*

MAMMALIA—*continued.*

A rare Armadillo (*Chlamyphorus truncatus*) from San Luis, Argentine Republic; *presented by Henry L. Green, Esq.*

Two mammals from Buenos Aires; *presented by Lady Jackson.*

Two mammals from Tierra del Fuego; *presented by W. B. Rogers, Esq.*

Twenty mammals from the Rio Pastaza, collected by Mr. M. G. Palmer.

Australasia.

Fifty-one mammals from Amboina, collected by C. B. Kloss, Esq.; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

Six mammals from German New Guinea; *presented by the Hon. Walter Rothschild, F.R.S.*

One hundred and ten mammals from Dutch New Guinea; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

Eleven mammals from Dutch New Guinea, collected by Mr. A. S. Meek.

Seven mammals from Queensland; *presented by Mrs. Crookshank.*

AVES.

The acquisitions number ten thousand eight hundred and nineteen. Of these the most noteworthy are as follows:—

Europe.

Two hundred and seventy-six birds from Ireland; *presented by W. R. Ogilvie-Grant, Esq.*

Five examples of the Irish Jay, *Garrulus hibernicus*, from Co. Waterford, new to the collection; *presented by Count de la Poer.*

Two hundred and thirty-one Grouse, Black Game, and Ptarmigan from Great Britain, including many valuable varieties and plumages; *presented by the Grouse Disease Enquiry Committee.*

Two Lämmergeiers and a Turkey Vulture; *presented by the Zoological Society of London.*

Two nestling Marsh Harriers, from the Camargue; *presented by Collingwood Ingram, Esq.*

Asia.

Six specimens of *Paradoxornis* from China; *presented by Commander H. Lynes.*

Twenty-two birds from Sze-chwan, Western China; *presented by His Grace the Duke of Bedford, K.G., F.R.S.*

AVES—*continued.*

Two hundred and forty-four birds from Central Asia, collected by Douglas Carruthers, Esq.

Thirty-seven birds from Formosa, collected by Dr. A. Moltrecht.

Three hundred and thirty-seven birds from the Island of Palawan, collected by Willoughby P. Lowe, Esq.

Africa.

Alexander Collection.—Four thousand seven hundred and ninety-eight birds from Africa, including the types of eighty-four species; collected by and *presented in accordance with the wish of the late Mr. Boyd Alexander.*

Three hundred and fourteen birds from the Sudan Region; *presented by G. Blaine, Esq.*

The type-specimens of *Tarsiger elgonensis* and *Irrisor granti*, from British East Africa, both new to the collection; *presented by F. J. Jackson, Esq., C.B., C.M.G.*

Nine birds from Equatorial Africa, six species being new to the collection; received in exchange from the Berlin Museum.

One hundred and seventy-three birds from East Africa; collected by Mr. Robin Kemp.

One hundred and forty-one birds from Central Africa; *presented by Sheffield A. Neave, Esq.*

Fifty-three birds from Entebbe, Uganda; *presented by C. C. Gowdey, Esq.*

An example of the rare Scops Owl, *Gymnoscops insularis*, from the Seychelles; *presented by H. P. Thomasset, Esq.*

Four specimens of the Black Knorhaan, *Lissotis afra*, from Bechuanaland; *presented by R. E. Dent, Esq.*

Three hundred and six eggs from Northern Ankole, collected by R. A. L. van Someren, Esq.

Twenty-three birds from the district South of Lake George, including the type of *Laniarius mufumbiri; presented by Mrs. M. Roby.*

A nestling Ostrich; *presented by Carl Hagenbeck, Esq.*

One hundred and eighty-two birds, including the types of *Sylviella lowei, S. hardyi*, and *Cinnyris kruensis*, from West Africa; collected by Willoughby P. Lowe, Esq.

Four hundred and fifty-one birds from West Africa; *presented by Capt. E. C. Hardy, R.N.*

Sixteen birds, including the type of *Himantornis whitesidei*, and one egg from the Congo Region; collected by the Rev. H. M. Whiteside.

Nine birds from Cameroon, including six types of newly described species, and seventy-two eggs, nearly all of which

AVES—*continued.*

were not previously represented in the collection; *presented by G. L. Bates, Esq.*

Five hundred and thirty birds and one hundred and eleven skeletons from Cameroon; collected by G. L. Bates, Esq.

The type specimen of Wells' Wagtail, *Motacilla wellsi,* from Upper Nigeria; *presented by T. V. Fox, Esq.*

Australasia.

An example of Mantou's Bird of Paradise, *Heteroptilorhis mantoui,* new to the collection.

An egg of the Greater Bird of Paradise, *Paradisea apoda,* new to the collection; *presented by Mrs. E. J. Johnstone.*

One thousand birds from Dutch New Guinea and Amboina, including the types of ten new species and many species new to the collection; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

America, North.

An example of the extinct Passenger Pigeon, *Ectopistes migratorius,* from Kingston, Canada; *presented by Mrs. Oliver.*

America, South.

Two hundred and twenty-four birds, sixty-eight eggs, and fifteen nests from Tamuco, Southern Chile, including a new species, *Upucerthia tamucoensis,* and eggs which were previously unrepresented; collected by Señor A. Saldaña.

Thirty-four birds from Entrerios; *presented by Lady Jackson.*

One hundred and twenty birds from British Guiana; *presented by the Royal Artillery Institution, Woolwich.*

REPTILIA.

The additions number three hundred and sixty-six, of which two hundred and eleven were acquired by presentation, one hundred and fifty-two by purchase, and three by exchange.

The principal additions are:—

Europe.

Lizards from Linosa Island, Mediterranean; *presented by Dr. J. de Bedriaga.*

Asia.

Examples of two Lizards new to the collection (*Tachydromus kuehnei* and *T. sauteri*) from Formosa; received in exchange from the California Academy of Sciences, San Francisco.

REPTILIA—*continued.*

Fourteen Reptiles from various parts of India and Burma, including a Snake (*Oligodon erythrogaster*), new to the collection; *presented by Major F. Wall.*

Eleven Snakes from Kelantan, Malay Peninsula; *presented by Dr. J. D. Gimlette.*

Thirty Reptiles from Sarawak; *presented by Cecil J. Brooks, Esq.*

Africa.

Examples of *Uromastix acanthinurus*, var. *nigriventris*, from Ghardaia, Algeria; *presented by the Hon. Walter Rothschild, F.R.S.*

A skull of the Nile Crocodile, from the Fayum (Roman period); *presented by Prof. W. M. Flinders Petrie, F.R.S.*

Five Reptiles collected on the Bahr-el-Gebel by the Rev. A. Shaw; *presented by A. L. Butler, Esq.*

Eleven Reptiles from the Blue Nile; *presented by Capt. S. S. Flower.*

Ten Reptiles collected by Mr. Kristensen near Harrar, Abyssinia.

Twenty-one Reptiles collected by Dr. E. Bayon in Uganda; *presented by the Director of the Museo Civico, Genoa.*

Ten Chamæleons obtained by Mr. F. B. Pratt in Central Madagascar.

Examples of a Lizard (*Lygodactylus ocellatus*) from the Transvaal, new to the collection; *presented by J. Hewitt, Esq.*

Twelve Reptiles from the Zaria and Bassa Provinces, Northern Nigeria, including a Lizard (*Bunocenemis matschii*), new to the collection; *presented by A. C. Francis, Esq.*

Eight Reptiles from Deert, Nigeria, including a new Amphisbæna (*Amphisbæna simpsoni*); *presented by J. J. Simpson, Esq.*

Thirteen Reptiles from the Gold Coast; *presented by Dr. H. G. F. Spurrell.*

Thirteen Reptiles from South Cameroon, collected by Mr. G. L. Bates, and including the type of a new Snake (*Goniionotophis microps*).

North and Central America.

Thirty-five Reptiles from N.W. Mexico, collected by Mr. Neilly, including examples of a Lizard (*Gerrhonotus tæniatus*) and a Snake (*Tropidonotus multimaculatus*), new to the collection.

A rare Turtle (*Dermatemys mawi*) from British Honduras; *presented by the Zoological Society of London.*

REPTILIA—*continued.*

South America.

Twenty-five Reptiles collected in the Andes of Peru by Messrs. H. and C. Watkins.

Forty-two Reptiles collected at Huancabamba, Andes of E. Peru, by Dr. E. Boettger, including types of three new Lizards (*Anolis boettgeri, Stenocercus boettgeri, Prionodactylus spinalis*).

Ten Reptiles collected at Chanchamayo, Andes of E. Peru, by Mr. C. Schunke.

BATRACHIA.

The additions are two hundred and sixty-six, of which two hundred and ten were received by presentation, fifty-one by purchase, and five by exchange.

The following are the most important :—

Europe.

A large series of *Salamandra maculosa* from various localities, to illustrate the range and variation of the species; *presented by various donors.*

Asia.

A specimen of the Giant Salamander (*Megalobatrachus maximus*) from the Kwangsi Province, China; *presented by Sir Frederick Lugard, K.C.M.G., D.S.O.*

Eight Batrachians from Formosa, received in exchange from the California Academy of Sciences, San Francisco.

A Frog new to the collection (*Rana yunnanensis*) from Tibet.

Eighteen Batrachians from Sarawak, including a new Frog (*Rhacophorus brooksii*); *presented by Cecil J. Brooks, Esq.*

Africa.

Six Batrachians from the Blue Nile; *presented by Capt. S. S. Flower.*

Five Batrachians collected in Erythræa by Signor Nello Beccari, including a new Frog (*Rana beccarii*); *presented by the Director of the Museo Civico, Genoa.*

Five Batrachians from Mount Kenia, British East Africa; *presented by Prof. E. Lönnberg.*

Twelve Batrachians collected in Uganda by Dr. E. Bayon, including the type of a new Frog (*Rappia bayoni*); *presented by the Director of the Museo Civico, Genoa.*

Twelve Frogs from Grahamstown and Kimberley, S. Africa; *presented by J. Hewitt, Esq.*

BATRACHIA—*continued.*

A rare Frog (*Breviceps adspersus*) from Namaqualand; *presented by Dr. R. Broom.*

Four Batrachians from the Zima Province, N. Nigeria, including a Frog new to the collection (*Rana longirostris*) and the type of a new species (*Phrynobatrachus francisci*); *presented by A. C. Francis, Esq.*

America, North.

Nine Frogs from N.W. Mexico, collected by Mr. Neilly.

America, South.

Types of a new Frog discovered in Trinidad by Dr. L. H. Gough (*Hyla goughi*); *presented by the Zoological Society of London.*

Twelve Batrachians from the Andes of Peru.

Australasia.

Types of two new Frogs (*Hyla pratti* and *Hylella chloronota*), obtained by Mr. A. E. Pratt on Mt. Arfak, New Guinea.

PISCES.

The additions number seventeen hundred and fifty-six, of which nine hundred and twenty-six were acquired by presentation and eight hundred and thirty by purchase.

The following are the principal additions:—

Europe.

A rare Skate from Iceland (*Raia lintea*); *presented by Mr. J. Mundie.*

A remarkably large Horse Mackerel (*Trachurus trachurus*) from Ireland; *presented by Herbert Quinton, Esq.*

A yellow Eel (*Anguilla vulgaris, ictera*) from Holland; *presented by Sir J. Wrench Towse.*

A rare Fish (*Centrolophus pompilus*) from Bordighera; *presented by Mr. A. E. Hollis.*

Co-types of three Cyprinids from Herzegovina (*Paraphoxinus metohiensis*, *P. ghetaldii*, and *P. pstrossii*); *presented by Dr. F. Steindachner.*

Asia.

Sixty-nine Fishes from the Persian Gulf and forty-seven from Kurrachee; *presented by F. W. Townsend Esq.*

Examples of two Fishes from Rangoon, Burma, new to the collection (*Danio analipunctatus* and *Haplochilus melanostigma*); *presented by Mr. J. Paul Arnold.*

Nineteen Fishes from the Malay Peninsula; *presented by Mr. E. Seimund.*

Thirty-three Fishes from Christmas Island; *presented by R. Kirkpatrick, Esq.*

PISCES—*continued.*

Eight Fishes from the Indian Ocean, collected by Dr. F. R. D. Glisson, among them an example of a species new to the collection (*Idiacanthus fasciola*); *presented by the Eastern and Associated Telegraph Companies.*

Africa.

Examples of a little known Barbel from Biskra (*Barbus biscarensis*); *presented by the Hon. Walter Rothschild, F.R.S.*

Five Cyprinodonts from Algeria, including examples of a species (*Tellia apoda*) new to the collection; received in exchange from the Paris Museum.

One hundred and sixty-seven Fishes, from a collection made by Dr. E. Bayon in Uganda, including the types of eight new species; *presented by the Director of the Museo Civico, Genoa.*

Seventeen Fishes from the Victoria Nile; *presented by F. H. Melland, Esq.*

The type of a new Barbel (*Barbus somereni*) from Mount Ruwenzori, British East Africa; *presented by V. G. L. van Someren, Esq.*

Examples of two new Fishes (*Barbus luazomelæ* and *Tilapia nyirica*) from British East Africa; *presented by Prof. E. Lönnberg.*

Four Fishes from Lake Rukwa, including the type of a new species (*Clarias hilgendorfi*); *presented by F. H. Melland, Esq.*

Fifty-three Fishes from Lake Bangwelu; *presented by F. H. Melland, Esq.*

Twenty-seven Fishes from the Sankun River, Kasai, Congo, from the collection of M. E. Luja; among them the types of two new species (*Labeo nigricans, Haplochilus lujæ*); *presented by the Director of the Luxemburg Museum.*

One hundred and seventy Fishes obtained in Angola by Dr. W. J. Ansorge, including the types of nineteen new species.

Twenty-two Fishes collected in South Cameroon by Mr. G. L. Bates, including the types of three new species (*Clarias jaensis, C. esamesæ, Auchenoglanis altipinnis*).

Forty-nine Fishes from the Lower Niger and the head-waters of the Cross River; *presented by R. D. Gardner, Esq.*

Fifty-six Fishes from the Niger; *presented by J. J. Simpson, Esq.*

Forty-three Fishes from Lagos and the head-waters of the Cross River, including a new Barbel (*Barbus aboinensis*); *presented by Major G. E. Bruce.*

A new Cyprinodont (*Haplochilus grahami*) from Lagos; *presented by Dr. W. M. Graham.*

Seven Fishes from the Gold Coast, including a new Barbel (*Barbus spurrelli*); *presented by Dr. H. G. F. Spurrell.*

PISCES—*continued.*

Fifty-two Fishes collected in Liberia by Mr. W. P. Lowe, including a new *Polypterus* (*Polypterus lowei*).

Eighteen Cyprinodonts, including a new species (*Haplochilus calliurus*) from Liberia; *presented by Mr. J. Paul Arnold.*

A new Fish (*Mastacembelus reticulatus*) from Sierra Leone; *presented by the Liverpool School of Tropical Medicine.*

America, North.

Examples of a Ray (*Dicerobatis olfersii*) from North Carolina, new to the collection; *presented by Mr. Russell J. Coles.*

A model of a record specimen of the Yellow-tail (*Seriola dorsalis*) from South California; *presented by W. W. Simpson, Esq.*

A large stuffed Tarpon (*Megalops thrissoides*) from Tampico, Mexico; *presented by A. Louis Allen, Esq.*

America, South.

Five hundred and sixty Fishes from Prof. C. H. Eigenmann's British Guiana Collection, including co-types of eighty-one new species.

Four Fishes from Manaos, Brazil, including one (*Crenicichla lenticulata*) new to the collection; *presented by E. Stanley Sutton, Esq.*

The type of a new Cyprinodont (*Petalosoma amazonum*) from Brazil; *presented by Mr. A. Rachow.*

Thirteen Fishes from the Andes of Peru, collected by Messrs. H. and C. Watkins.

Fifty-six Fishes from the Falklands, including examples of two species new to the collection (*Liparis falklandicus, Notothenia karlandræ*); *presented by Rupert Vallentin, Esq.*

Examples of a Sprat (*Clupea fuegensis*), new to the collection, from the Falklands; *presented by T. W. Proger, Esq.*

MOLLUSCA.

The collection of Palæarctic Mollusca formed by the Rev. Canon A. M. Norman constitutes the principal acquisition during the year. It consists of about 50,000 specimens which are in excellent condition and are named throughout. It contains probably the most complete series of the British species in this country and is a great accession to the Museum on this account. Besides the British series the collection includes Mediterranean, Madeiran, Atlantic, Scandinavian and Arctic forms, besides others from the United States, Vancouver and Japan. The Arctic portion of the collection is especially fine and of much scientific interest. With regard to the

MOLLUSCA—*continued.*

specimens themselves it was Canon Norman's object to obtain the finest he possibly could; and some of them are quite unique in respect of size.

In addition to the above collection three thousand four hundred and eighty-eight specimens were acquired during the year.

The following are the principal series:—

Miscellaneous.

Fifty-nine shells from various localities, including remarkable abnormal specimens of *Strombus*, *Cypræa*, *Oliva*, *Conus*, *Murex* and *Ranella*, a valuable reversed example of *Vasum rhinoceros* and twenty-two figured specimens from the Hanley Collection; *presented by Henry Harvey, Esq.*

Twenty-eight shells from various localities, including specimens of *Voluta gatliffi* and *V. prevostiana*, the types of *Pleurotoma invicta*, *Terebra remanovolva* and other species new to the collection.

Two hundred and eighty-three specimens, mostly land and freshwater species from Africa, Caspian Sea, South Pacific Islands, etc.; nearly all new to the collection.

Two hundred and forty-nine shells from Africa, Tonkin, Viti, etc., including co-types of many recently described species.

Two hundred and one specimens from Sunday Island, Kermadec Group, and East Central Africa, all new to the collection and lately described species.

Europe.

Seventeen fine specimens of marine shells from Jersey; *presented by H. Spurrier, Esq.*

Asia.

Twenty-two marine shells from Christmas Island, including four new species; *presented by R. Kirkpatrick, Esq.*

Fifty marine shells from Wei-Hai-Wei, North China; *presented by C. E. Liardet, Esq.*

Ninety land and marine shells from Bombay, Karachi and Ceylon; *presented by E. Comber, Esq.*

Africa.

One hundred and twenty-nine marine shells from Kalk Bay, Cape of Good Hope, including a fine series of *Phasianella*; *presented by Miss Reid.*

Sixty-three land shells from Natal and Cape Colony, including the types of thirty-one species; *presented by J. H. Ponsonby, Esq.*

A second series of twenty-one types of South African land shells and other species, represented by sixty-one specimens; *presented by J. H. Ponsonby, Esq.*

MOLLUSCA—*continued.*

Forty-five land and freshwater shells from Nigeria and Lagone District, South of Lake Chad; *presented by P. A. Talbot, Esq.*

Twenty-nine marine shells from Madeira, including the types of nineteen species described by the Rev. R. Boog Watson; *presented by J. R. Le B. Tomlin, Esq.*

America.

Thirty-one land and freshwater shells from New Mexico, including several new varieties; *presented by Prof. T. D. A. Cockerell.*

Thirty-one marine shells from Vancouver Island, *collected and presented by Miss H. L. M. Pixell.*

Thirteen hundred and thirty-nine land, freshwater, and marine shells from Bermuda, including many species new to the collection; *presented by Major A. J. Peile, R.A.*

Australasia.

Forty-two marine shells from South Dutch New Guinea; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

Three hundred and thirty-four specimens of the genus *Physa* from exact localities in South Australia; *presented by W. T. Bednall, Esq.*

Eighteen marine shells from South Australia, representative of eight species new to the collection; *presented by Dr. J. C. Verco.*

INSECTA.

The number of specimens added to this part of the collection during the year is one hundred and eighteen thousand and twenty-two, made up as follows:—

Coleoptera	55,887
Lepidoptera	26,040
Hymenoptera	11,661
Diptera	8,542
Rhynchota	7,967
Orthoptera	2,947
Neuroptera	4,732
Nests, eggs, larvæ, etc.	246
Total	118,022

The most important of these accessions are the following:—

From various localities.

Five thousand six hundred and thirteen Micro-Lepidoptera from Queensland, French Guiana and S. Europe; *presented by the Right Hon. Lord Walsingham, F.R.S.*

INSECTA—*continued.*

Five thousand Lepidoptera and Rhynchota purchased of W. L. Distant, Esq., being the first instalment of the Distant Collection.

Six thousand five hundred Coleoptera, being the collection of Cicindelidæ formed by the late Frederick Bates; *presented by Guy R. G. Nevinson, Esq.*

One hundred and eighty-eight Coleoptera, being the collections of Platypodidæ formed by Messrs. Janson and Wallace, and including many types of species described by Chapuis.

One thousand and fourteen Hymenoptera; *presented by R. E. Turner, Esq.*

Europe.

Two thousand one hundred and sixty-six named British Diptera; a first instalment of the collection *bequeathed by the late G. H. Verrall, Esq.*

Nine hundred named British Diptera; *presented by Lieut.-Col. J. W. Yerbury.*

Asia.

Eight thousand Coleoptera from Japan, including many types, being the second instalment of the collection formed by G. Lewis, Esq.

Two thousand seven hundred Insects of all Orders from China; *presented by the Hon. Walter Rothschild, F.R.S.*

Five hundred and twenty-three Insects of all Orders from China and the Hawaiian Islands; *presented by the late F. W. Terry, Esq.*

Three hundred and forty-five Lepidoptera from Kashmir; *presented by Major F. Wall.*

Two hundred Diptera from India; *presented by Col. H. G. W. Barrow. R.A.M.C.*

Africa.

Thirty-one thousand seven hundred and thirty Insects of all Orders; *presented by the Entomological Research Committee.*

Four hundred and ten Coleoptera (Longicornia), including many co-types; *presented by the Hon. Walter Rothschild, F.R.S.*

Three hundred and ten Diptera from Uganda; *presented by Capt. A. D. Fraser, R.A.M.C.*

Eight hundred and twenty-five Insects of various Orders, including many types, and fifty-one microscopic slides, from the Seychelles Islands; *presented by Prof. J. Stanley Gardiner, F.R.S.*

INSECTA—*continued.*

One thousand eight hundred and eighty Coleoptera, including a named collection of South African Tenebrionidæ; *presented by G. A. K. Marshall, Esq.*

Five thousand Rhynchota from Natal, received in exchange from Mr. O. E. Janson.

One thousand and forty seven Lepidoptera, and three hundred Insects of other Orders, from Southern Nigeria; *presented by Capt. Lorn E. H. Humfrey.*

Four hundred and seventy-seven Lepidoptera from the Gold Coast; *presented by Dr. H. G. F. Spurrell.*

America.

Twenty thousand seven hundred and eighty-seven Coleoptera, three thousand four hundred and twenty-five Lepidoptera and three thousand eight hundred and ten Insects of other Orders, mainly from Mexico and Central America; *presented by Dr. F. D. Godman, F.R.S.*

Four hundred and twenty-three Lepidoptera from Costa Rica; *presented by W. Schaus, Esq.*

Four hundred and eighty-five Lepidoptera from Colombia; *presented by Herbert Druce, Esq.*

Australasia.

One thousand five hundred and seventy Lepidoptera, and one thousand and thirty-three Insects of other Orders, from Dutch New Guinea and the Aru Islands; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

Seven hundred and twenty Coleoptera from Australia, mostly type specimens, being the second instalment of the Rev. Canon T. Blackburn's Collection.

Seventy-five Coleoptera from Australia, mostly co-types; received in exchange from A. M. Lea, Esq., Government Entomologist, Hobart.

One hundred Diptera from S. Queensland; *presented by Dr. T. L. Bancroft.*

Four hundred and forty-three Insects of various Orders from Central Australia; *presented by H. J. Hillier, Esq.*

MYRIOPODA.

The accessions number two hundred and eighty-four, of which the following are the more important:—

A number of specimens of a new termitophilous millipede (*Termitodesmus lefroyi*) from Bengal; *presented by H. Maxwell-Lefroy, Esq.*

Eighty-one Myriopoda from Japan.

MYRIOPODA—*continued.*

Twenty specimens from Dutch New Guinea; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

Thirty specimens from Hawaii; *presented by the late F. W. Terry, Esq.*

Eighty-seven specimens from Algeria; *presented by S. Hirst, Esq.*

ARACHNIDA.

The accessions number two thousand and twenty-six. The following are worthy of note:—

Asia.

Nine Pedipalpi from India and Ceylon, including co-types of four species and a variety; received in exchange from the Trustees of the Indian Museum, Calcutta.

Forty Arachnida from Northern and Western China, including the types of five new species of spiders and a new variety of a tick; *presented by A. de C. Sowerby, Esq.*

Nine hundred and ten Arachnida from Japan.

Five spiders and a new species of harvestman (*Systenocentrus confucianus*) from the Shensi Province of China; *presented by the Hon. Walter Rothschild, F.R.S.*

Africa.

Two hundred and thirty-two Ticks from various parts of Africa, including the types of three new species and two new varieties; *presented by the Entomological Research Committee.*

One hundred and ninety-seven Arachnida from Algeria; *presented by S. Hirst, Esq.*

Three hundred and twenty Ticks from British East Africa and German East Africa; *presented by the Hon. N. C. Rothschild.*

Forty-eight Ticks from Uganda; *presented by Capt. A. D. Fraser, R.A.M.C.*

Fourteen Arachnida from North East Rhodesia, including the types of two new species; *presented by the Manchester Museum.*

Thirty Arachnida from the Gold Coast *presented by Dr. H. G. F. Spurrell.*

Australasia and Pacific Ocean.

Sixty-two Spiders from Dutch New Guinea; *presented by the British Ornithologists' Union New Guinea Expedition Fund.*

Forty-five Spiders from Hawaii; *presented by the late F. W. Terry, Esq.*

Crustacea.

Excluding the Norman collection, which is estimated to contain over 35,000 specimens, the additions number eight hundred, of which the following are the most important :—

Europe.

Eight microscopical preparations of British Crustacea ; *presented by H. J. Waddington, Esq.*

A rare British Crab (*Paromola cuvieri*) ; *presented by H. Bolton, Esq.*

One hundred and five specimens of British Woodlice ; *presented by R. S. Bagnall, Esq.*

Five British Amphipoda ; *presented by A. O. Walker, Esq.*

Three Crayfish from Derbyshire ; *presented by T. A. Coward, Esq.*

Five Woodlice (*Porcellio dilatatus*) from Fulham ; *presented by Mr. W. E. Barnett.*

Twenty-two Well-shrimps and Copepods from the Isle of Wight ; *presented by Mrs. S. F. Harmer.*

Three myrmecophilous Woodlice from Devonshire ; *presented by S. Hirst, Esq.*

Ten Freshwater Amphipods from Ireland ; *presented by Major H. Trevelyan.*

The type-specimen of a new species of Cirripede from the West of Ireland ; *presented by the Department of Agriculture and Technical Instruction, Ireland.*

Six Well-shrimps (*Niphargus plateaui*) from France ; *presented by the Rev R. Ashington Bullen, F.L.S.*

Fifteen Tanaidæ from Naples ; *presented by Dr. R. Dohrn.*

Asia.

Two blind Prawns from the Sea of Galilee.

Two parasitic Isopoda from Arabia ; *presented by Dr. A. Hayes.*

Seventy-six Decapoda from India ; received in exchange from the Indian Museum, Calcutta.

Ten freshwater Ostracods from Travancore ; *presented by the Government Museum, Trivandrum.*

Twenty-nine Penæid Prawns from the Persian Gulf and Karachi ; *presented by F. W. Townsend, Esq.*

Twenty-four Crustacea from Christmas Island ; *presented by R. Kirkpatrick, Esq.*

One hundred and sixty-seven pelagic Copepoda from Christmas Island ; *presented by Sir John Murray, K.C.B., F.R.S.*

Eight River-crabs from Borneo ; *presented by C. J. Brooks, Esq.*

CRUSTACEA—*continued.*

Fourteen Crustacea from Japan and China; received in exchange from the Zoological Museum, Munich.

Two Crabs from Hong Kong; *presented by the Indian Museum, Calcutta.*

Africa.

A River-crab from the Blue Nile; *presented by Capt. S. S. Flower.*

Three River-crabs from Abyssinia.

Three River-shrimps from British East Africa; *presented by C. M. Woodhouse, Esq.*

Four River-crabs from British East Africa; *presented by C. D. Rudd, Esq.*

Four River-crabs from Uganda; *presented by Oldfield Thomas, Esq., F.R.S.*

A River-crab from Uganda; *presented by C. C. Gowdey, Esq.*

Eleven Crabs and Prawns from West Africa; *presented by Capt. E. C. Hardy, R.N.*

Four River-crabs from the Gold Coast; *presented by Dr. H. G. F. Spurrell.*

One River-crab from Northern Nigeria; *presented by A. C. Francis, Esq.*

America.

A Crab from Florida; received in exchange from the Zoological Museum, Munich.

Two River-prawns from Ecuador.

Twenty-five Crustacea from Chili; *presented by Prof. Carlos E. Porter, C.M.Z.S.*

Australasia.

Six specimens of *Eulimnadia* from Sydney; *presented by Professor J. P. Hill.*

A Crayfish from the Aru Islands; received in exchange from the Natural History Museum, Basel.

Twenty-six Crustacea from New Guinea; *presented by the Subscribers to the British Ornithologists' Union New Guinea Expedition Fund.*

Miscellaneous.

Forty-four Crustacea from submarine telegraph cables in the Indian Ocean and Australian waters; *presented by the Eastern and Associated Telegraph Companies.*

A Hermit-crab from the Red Sea; received in exchange from the Zoological Museum, Munich.

CRUSTACEA—*continued.*

Fifty microscopical preparations of Ostracoda, including holotypes of eleven species, from Funafuti; *presented by the Royal Society.*

Eight Crustacea from the Friendly Islands, collected by the Solar Physics Observatory Eclipse Expedition of 1911 to Vavau; *presented by Dr. W. J. S. Lockyer.*

A Woodlouse and four specimens of *Apus* from Hawaii; *presented by the late F. W. Terry, Esq.*

Twenty-one Whale-parasites from South Georgia; *presented by Dr. George Cruickshank.*

Forty Cumacea from the "Nimrod" Antarctic Expedition; *presented by Sir Ernest Shackleton.*

PYCNOGONIDA.

Four specimens from South Georgia; *presented by Dr. George Cruickshank.*

ECHINODERMA.

Of the few (eight) specimens obtained during the year, none call for special mention.

WORMS.

Of these the most important are:—

Two hundred and twenty-six Polychæta collected by the National Antarctic Expedition, including representatives of thirteen genera hitherto wanting to the collection; described by Prof. E. Ehlers in Vol. VI. of the "Discovery" Reports.

Forty-eight Polychæta described by Dr. A. Willey, F.R.S., in the Transactions of the Linnean Society (Vol. ix); *presented by the Trustees of the South African Museum.*

Various additions to the collection of Oligochæta which have been determined most kindly by Dr. L. Cognetti de Martiis.

A further set of twenty-four beautiful preparations of Rotifers, determined and mounted by C. F. Rousselet, Esq.

POLYZOA.

The most notable acquisition has been that of the Norman Collection of Polyzoa, the most important part of which was contained in 1,063 glass-topped boxes, and included types, co-types, and figured specimens.

Anthozoa.

The most interesting additions were the following:—

Several pieces of *Osteocella septentrionalis*, which have formed the subject of a recent paper by Prof. S. J. Hickson, F.R.S.; *collected and presented by the Rev. J. H. Keen.*

Eighty-three specimens of *Porites*, collected by the donor during his expedition to the Laccadive Is.; *presented by Professor J. Stanley Gardiner, F.R.S.*

An interesting specimen of the rare Alcyonarian *Anthomastus*; *presented by the Eastern and Associated Telegraph Companies.*

Three stony Corals, selected from the collection made by the Solar Physics Observatory Eclipse Expedition of 1911 to Vavau; *presented by Dr. W. J. S. Lockyer.*

Hydrozoa.

The Medusæ of the National Antarctic Expedition, described by Mr. E. T. Browne in Vol. V. of the "Discovery" Reports.

Porifera.

Twenty-five slides of freshwater Sponges; *presented by Dr. Edward Potts.*

One hundred and forty-eight slides of Hexactinellida from the Pacific, mostly prepared from type-specimens by Prof. R. v. Lendenfeld.

A large collection of Sponges from Christmas Island, now contained in 104 bottles and 22 boxes; *collected and presented by R. Kirkpatrick, Esq.*

Fifteen bottles containing nine hundred specemens of *Merlia normani* collected at monthly and occasionally fortnightly intervals during twelve months, for the purpose of ascertaining the time of development of the eggs and embryos.

A small but interesting collection of thirty-two Sponges from about 20 fathoms in Departure Bay, Vancouver, B.C., and including specimens of three species of Hexactinellida; *collected and presented by Miss H. L. M. Pixell.*

Protozoa.

Eight compound slides of deep-sea types of Foraminifera from Funafuti, and one compound slide of holotypes and plesiotypes of Foraminifera, mounted by Mr. F. Chapman and described by him in Journ. Linn. Soc. xxx., 1910; *presented by the Royal Society.*

Summary of the Acquisitions in the Department of Zoology during 1911.

		Donations.	Purchases.	Exchanges.	Totals.
Mammalia	Wild	2,993	1,185	16	4,194
	Domesticated	11	—	—	11
	Human	22	—	4	26
Aves	Skins	8,622	1,625	37	10,284
	Eggs, nests, and skeletons	39	496	—	535
Reptilia		211	152	3	366
Batrachia		210	51	5	266
Pisces		926	830	—	1,756
Tunicata		8	—	—	8
Mollusca	Norman Collection	—	49,171	—	52,659
	Other sources	2,559	861	68	
Insecta		102,132	15,493	397	118,022
Prototracheata		—	—	—	—
Myriopoda		181	103	—	284
Arachnida		1,098	920	8	2,026
Crustacea	Norman Collection	—	35,000	—	35,800
	Other sources	700	7	93	
Pycnogonida		4	—	—	4
Echinoderma		8	—	—	8
Worms	"Discovery" Collection	227	—	—	344
	Other sources	81	24	12	
Brachiopoda	Norman Collection	—	498	—	534
	Other sources	36	—	—	
Polyzoa	Norman Collection	—	1,745	—	1,763
	Other sources	18	—	—	
Anthozoa		99	—	—	99
Hydrozoa		47	714	25	786
Porifera		301	1,111	—	1,412
Protozoa		18	96	—	114
	Totals	120,551	110,082	668	231,301

The following Donors* have presented specimens to the Department of Zoology during the past year :—

Aders, Dr. W. M.
Admiralty, Lords of the
Alexander, Boyd (the late)
Allen, A. L.
Andrews, Dr. C. W.
Andrewes, H. E.
Arbuckle, Dr. H. E.
Arnold, J. P.
Ashover, J. J.
Bacot, A.
Bagnall, R. S.
Bailey, Capt. F. M.
Baird, T.
Bancroft, Dr. R. L.
Barclay, H. G.
Baring, Hon. C.
Barnard, K. H.
Barnett, W. E.
Barrett-Hamilton, Maj. G. E. H.
Barrow, Col. H. J. W.
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Bates, G. L.
Bavay, A.
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Bechuanaland Administration.
Beddett, Major
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Bednall, W. T.
Bedriaga, J. de

* A list of Donors of books, etc., is given on pp. 125–127, under the heading "Departmental Library."

Bell, Mrs.
Berg, C.
Beringer, Dr. F. J. A.
Best, T. A. V.
Bethell, Mrs. Guy.
Betton, C. S.
Bilborough, Mrs. G. E.
Bird, H.
Bishop, A. H.
Blackler, W. F. G.
Blaine, G.
Blair, K. G.
Blochmann, Dr. F.
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Bolton, H.
Bombay Nat. Hist. Society.
Boury, E. de
Bowditch, F. C.
Bradshaw, Maj. C. P.
Braem, Dr. F.
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Bucknill, Hon. John A.
Bullen, Rev. R. A.
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Burr, Dr. M.
Busch, A.
Butler, A. L.
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Chapman, A.
Chapman, Dr. T. A.
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Clarke, W. Eagle
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Cockerell, Prof. T. D. A.
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Crowfoot, Dr. W. M.
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Dawson, Charles.
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Denny, Prof. A.
Dent, R. E.
Dillistone, Rev. H. G.
Dimock, Miss
Din, Dr. Fatteh ud
Distant, W. L.
Dod, F. H. W.
Dodds, Lieut. E. H.
Dognin, P.
Dohrn, Dr. R.
Donisthorpe, H. St. J. K.
Drake-Brockman, Dr. R. E.
Druce, H.

Dunn, Maj. H. N.
D'Urban, W.
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Durham, Dr.
Durrant, J. H.

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Edwardes, H. S. W.
Edwards, S.
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Eldrid, Mrs. E. R. C.
Enderlein, Dr. G.
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Evans, Capt. W. H.

Fagan, C. E.
Feilden, G. S. C.
Felsche, C.
Fergusson, W. N.
Fischer, C. E. C.
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Forde, Dr. R. M.
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Harting, J. E.
Harvey, H.
Hayes, Dr. A.
Heller, Dr. K. M.
Hewitt, J.
Hickson, Prof. S. J.
Hill, Prof. J. P.
Hillier, H. J.
Hinde, S. L.
Hirst, S.
Hitchcock, Miss M.
Hobart, C. H.
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Hollis, Mrs. A. E.
Holt, E. W. L.
Hopkinson, E.
Howard, C.
Howard, H. E.
Howell, E. B.
Howes, G.
Howlett, W. F.
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Iredale, T.
Ireland, Department of Agriculture.

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Janaghar, Nawab of
Jemmett, C. W.
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Jensen, H.
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Kirby, W. F.
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Lea, A. M.
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Lowe, W. P.
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McNeill, Capt. M.
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Marshall, G. A. K.
Maw, W. A.
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Muss, L. J.

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Neave, S. A.
Neish, Dr. W. D.
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Nevinson, G. R. G.
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Nutt, W. G.

Ohaus, Dr. F.
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Shackleton, Sir E.
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Shuttleworth, Hon. L. V. Kay
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Simpson, W. W.
Sjöstedt, Prof. Dr. Y.
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Smitheman, F.
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Someren, V. G. L. van
Sörensen, H.
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Stannus, Dr. H. S.
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Thompson, P. E.
Thompson, Lieut. W. R.
Thorne, F. W.
Thornicroft, H. S.
Thurnall, A.
Tomkinson, J. W.
Tomlin, J. R. Le B.
Tonge, A. E.
Townsend, F. W.
Towse, Sir J. W.
Travancore Museum.
Trevelyan, Major H.
Tripp, C. H.
Trivandrum Museum.
Tudor, G. W.
Turner, Dr. A. J.
Turner, R. E.
Tytler, Major H.

United States National Museum.
Ussher, R. J.

Vallentin, R.
Vanatta, E. G.
Verco, Dr. J. C.
Verrall, G. H. (the late)
Videla, F.

Waddington, H. J.
Walker, A. O.
Walker, B.
Walker, Commander J. J.
Walker, L. A.
Wall, Major F.
Wallis, J. B.
Walsingham, Lord
Ward, Rowland
Warner, C. B. L.
Warren, Gen. Sir A.
Waterhouse, C. O., I.S.O.
Waterhouse, F. H.
Werner, Prof. F.
Wertheimstein, Fräulein Sarolta von
Wheeler, G. C.
Whiteside, W. M.
Wickham, H. A.
Wilkin, Capt. W. H.
Wilmer, Lieut.-Col. L. W.
Williams, F.
Wills, Lieut. G. E. J.
Wollaston, A. F. R.
Wolverton, Lord
Woodforde, F. C.
Woodhouse, C. M.
Woodley, V. H.
Woodward, Dr. A. S.
Woodward, B. B.
Woosnam, R. B.
Wroughton, R. C.

Yates, F.
Yates, W.
Yerbury, Lieut.-Col. J. W.

Zoological Society.

VI.—*Economic Zoology.*

The work of the Department in Economic Zoology has been carried on with the assistance of gentlemen specially qualified

to deal with the matters requiring attention. Mr. G. H. Grosvenor's services were continued until, at the end of April, he left in order to take advantage of a Carnegie Research Studentship, which enabled him to go to the United States to continue his studies there, and to become more thoroughly acquainted with the practical side of the subject. Fortunately the services of Mr. H. Maxwell-Lefroy, Imperial Entomologist to the Government of India, were just then available, and were secured in the interests of the Museum for the rest of the year. Although Mr. Lefroy was unable to give as much time as could be wished, his wide knowledge and great practical experience were of considerable value not only in dealing with inquiries that came in from time to time, but in all matters relating to the arrangement of the economic collections, and to the organisation and future development of the work.

The card-index giving references to all the chief insect pests of the world and to the literature bearing upon them, which was begun by Mr. Grosvenor, was continued by Mr. Lefroy and greatly amplified by the additions which he made to it. In this work he had the assistance of Mr. Lionel Armstrong, whose services were engaged at the beginning of December.

Inquiries on subjects of economic importance continued to come in from various parts of the world during the year. Many of these, as in previous years, related to the Diptera and more especially to the blood-sucking and other species concerned in the transmission of diseases.

The following were among the more interesting and important inquiries with respect to the Diptera :—

1. Determination of Blood-sucking Flies from Sierra Leone, Zanzibar, Congo Free State and the Uganda Protectorate.
2. Tsetse-flies forwarded for determination by the Sleeping Sickness Bureau.
3. The Bite of *Glossina fusca*, Walk., and that of *G. morsitans*. An inquiry from the Sleeping Sickness Bureau.
4. Tsetse-flies and big game in the Transvaal. Information sent to the Transvaal Game Protection Association.
5. Phlebotomus fever at Malta. A request for suggestions from Col. Sir David Bruce, C.B., F.R.S.
6. *Hæmatopota pluvialis*, L., attacking horses near Keynsham, Somerset.
7. Warble-flies and their habits.
8. The narcissus fly, *Merodon equestris*, F., bred from larvæ in bulb of *Habranthus*.
9. House-flies as "plagues" at Minehead and Westward Ho.
10. Swarms of *Chloropesta notata* in rooms at Hemsby, Norfolk.

11. *Leptis scolopacea*, L., said to be troublesome to human beings at Hendon.
12. Gnats and Mosquitoes, numerous reports of annoyance caused by them.
13. *Limosina* sp., attacking rhubarb roots.
14. *Agromyza scutellata*, L., damaging peas by mining the leaves.
15. *Piophila casei*, L., damaging hams in a bacon warehouse at Harrow.

Amongst the inquiries relating to other Orders of Insects the most important was one received from the Government of Mauritius, through the Director of the Imperial Institute. This had reference to the great destruction of the roots of sugar-canes in Mauritius by innumerable grubs of a species of beetle of the cockchafer family, believed to have been recently imported into the island. From specimens forwarded for determination, this species (*Phytalus smithi*, Arrow) was found to be a native of the West Indies till then unnamed.

These facts and advice as to the steps for dealing with the pest were communicated to the Government of Mauritius.

The following are some of the other objects upon which information and advice have been sought, and as far as possible given:—

LEPIDOPTERA (Moths, etc.).

16. *Ephestia kühniella* and *Corcyra cephalonica*, injurious to wheat, rice, and flour and also biscuits in granaries and warehouses, London, Swansea, Birmingham, Battersea.
17. *Ephestia cautella*, injurious to cocoa beans from Ecuador.
18. *Sylepta derogata*, Lab., as a cotton pest.
19. *Gelechia* spp., damaging cotton in British East Africa, Zanzibar and Egypt.
20. *Tinea pallescentella* damaging "Pemmican" in London.
21. Clothes-moth (*Trichophaga tapetzella*, L.) attacking reredos hangings in church at Rugby.
22. Bananas from Tenerife injured by a moth, *Sesamia vuteria*, also by a fly (*Drosophila funebris*, Mg.).
23. Tobacco in Rhodesia injured by *Gnorimoschema* sp., and *Phthorimæa operculella*.
24. Sweet potato in Rhodesia injured by *Bedellia somnulentella*.
25. Scots Fir near Bristol injured by *Exoteleia dodecella*.
26. Larch in Surrey injured by *Coleophora laricella*.
27. Apple trees near London injured by *Hyponomeuta padella*.

28. Euonymus in gardens round London injured by *Hyponomeuta euonymella.*

29. Palings and fences near London and also in Scotland destroyed by *Dasycera sulphurella,* F.

30. Flax : list furnished of European Lepidoptera known to feed on species of *Linum.*

COLEOPTERA (Beetles).

31. Larvæ of *Epilachna* sp., on leaves of potatoes in Portuguese East Africa.

32. Larvæ of Longicornia destroying rubber plants in Brazil and in Guatemala.

33. Banana trees in Mauritius damaged by a weevil, *Trochorhopalus strangulatus, Gyll.*

34. *Anœmerus fuscus,* Oliv., a weevil from N. Nigeria destructive to cotton.

35. *Lasioderma serricorne, Silvanus surinamensis,* L., *Tribolium ferrugineum,* F., *T. confusum,* Duv., and *Tenebroides mauritanicus* as granary and warehouse pests.

36. *Coccotrypes eggersi* in ivory nuts from Ecuador.

37. *Alphitobius diaperinus* damaging the collars of pit ponies.

38. *Sinoxylon crassum* and *Lymexylon navale,* L., in timber.

39. *Nacerdes melanura* destroying tarred wooden sheathing used to protect electric cables near Erith.

MYRIOPODA (Centipedes and Millipedes).

40. A millipede (*Odontopyge* sp.) causing great damage to cotton seedlings in Uganda.

ARACHNIDA (Ticks, Mites, etc.).

41. Ticks found in houses. (A.) Tortoise tick (*Hyalomma syriacum*) ; (B.) *Ixodes hexagonus.*

42. A number of specimens of a tick (*Ixodes ricinus*) taken off sheep in the North of England and believed to transmit "louping ill" were also received for determination.

43. A specimen of *Ixodes ricinus* taken from the leg of a lady at Wandsworth was also sent for examination.

44. *Glycyphagus domesticus,* De Geer, a Mite found in furniture.

45. Inquiry regarding "itch," supposed to attack persons entering water at Kwala Lampur, Malay States, infested with a freshwater snail, *Planorbis indicus.*

VII.—*Students and Visitors.*

The number of visits paid to the Zoological Department by Students and other persons requiring assistance or information amounted to 12,175. In the ten previous years the numbers were :—

12,443	in the year	1910.
11,461	,,	1909.
10,220	,,	1908.
11,043	,,	1907.
10,813	,,	1906.
11,811	,,	1905.
11,824	,,	1904.
11,627	,,	1903.
10,633	,,	1902.
12,813	,,	1901.

Sidney F. Harmer.

Department of Geology.

I.—*Arrangement and Conservation.*

Mammalia (Galleries 1 and 2).—Part of a skeleton of *Oreodon* from the White River Formation of Wyoming has been mounted in pier-case 13, and the remains of Camelidæ in the same case have been cleaned.

A skull and mandible of *Bos primigenius* from Essex have been mounted on the top of pier-case 17.

Several drawers of unexhibited remains of Rodentia in table-case 16 have been arranged and labelled.

The small teeth of *Mastodon* in table-case 23 have been re-tableted with new printed labels.

A mandible of *Elephas primigenius* from Hungary has been placed in pier-case 31.

The remains of *Elephas* from India in pier-case 34 are being mounted and re-arranged.

Part of a mandible of *Dinotherium hobleyi* from British East Africa has been mounted in wall-case 43.

Numerous Tertiary Mammalian remains from Baluchistan have been prepared for study, and progress has been made with a restored model of the skeleton of *Arsinoitherium zitteli*.

All acquisitions during the year have been registered and incorporated.

Number of specimens of Mammalia registered, 660.

Aves (Gallery 2).—The only specimens incorporated during the year are a few bird-bones from the Lake Dwellings of Holderness, Yorkshire, discovered and presented by Thomas Boynton, Esq.

Number of specimens of Aves registered, 9.

Reptilia and Batrachia (Galleries 3, 4, 5, 11).—A jaw of *Machimosaurus* from the Kimmeridge Clay has been mounted on the wall above wall-case 3.

A plaster-cast of the skin of *Trachodon* from the Upper Cretaceous of Wyoming, U.S.A., has been placed in wall-case 8.

A skull of *Triceratops prorsus* from the Upper Cretaceous of Wyoming, U.S.A., has been prepared and mounted on a special stand in the middle of the Gallery.

The Stegosaurian Dinosaurs have been studied and their nomenclature revised.

Dinosaurian remains from the Cretaceous of Transsylvania have been sorted and registered.

A plaster-cast of the skull and mandible of a gigantic turtle (*Archelon ischyros*) from the Chalk of Kansas has been mounted on the top of wall-case 18.

A pelvis of *Pliosaurus* from the Oxford Clay of Peterborough has been prepared and mounted in case O.

A Plesiosaurian shoulder-girdle has been prepared and mounted in wall-case 12, gallery 11.

A slab of Rhynchocephalian and other footprints from the Trias of Storeton, Cheshire, has been mounted in wall-case 11, gallery 11.

A skeleton of *Geosaurus* from the Lithographic Stone of Bavaria has been prepared and framed for exhibition.

Much progress has been made in the preparation and arrangement of the Leeds Collection of Oxfordian Marine Reptiles in cases in the S.E. Basement, which have now been made dust-proof.

Number of specimens of Reptilia and Batrachia registered, 186.

Pisces (Gallery 6).—The Silurian and Downtonian fish-remains in the drawers of table-case A have been examined and re-arranged for the incorporation of recent acquisitions.

The collection of *Ptychodus* from the Chalk, in the drawers of table-case 8, has been examined and re-arranged, preparatory to the revision of the exhibited series.

Several newly-acquired specimens of *Lepidotus* and allied genera have been prepared for study and exhibition; and numerous Chalk fishes have been extricated from the matrix.

A series of large Tertiary fishes has been framed for exhibition in wall-cases 17, 18.

All acquisitions during the year have been registered, labelled, and incorporated.

Number of specimens of Pisces registered, 180.

Mollusca (Galleries 7 and 8, and Workroom).—The Cephalopoda registered, labelled, and incorporated during the year include:—Triassic Ammonoids from Austria and Asia Minor, Ammonites from the Dogger of Switzerland, and the Lias of Austria-Hungary; Scaphites from the Chalk of Yorkshire (G. Sheppard Coll.); Belemnites and Nautili from the Chalk of Yorkshire, Kent, and Surrey; and Belemnites from the Greensand of Faringdon, Berks.

The Ammonites from the Speeton Clay of Yorkshire, and the collection of Austrian Triassic Ammonoids, have been examined and their nomenclature revised.

The exhibited Nautiloids (except those from the Carboniferous formations) have been re-arranged in wall-cases 1, 2, 13, 14, gallery 7; and the Carboniferous Nautiloids are being arranged in table-case 2.

The specimens of *Aspidoceras* from British Corallian rocks have been re-mounted with newly printed labels in wall-case 9.

Important additions to the exhibited collections of Cephalopoda are:—Scaphites from the Chalk of Yorkshire (table case 14), a specimen of *Macrocephalites morrisi* from the Fuller's Earth of Lansdown, Bath (table-case 8), and a specimen of *Orthoceras* from the Devonian of Kartal, near Constantinople.

The Palæozoic Gastropoda and Lamellibranchia registered, labelled, and incorporated during the year include:—Carboniferous Gastropoda from Bolivia (A. L. Dun Coll.), Devonian Gastropoda from Kartal, near Constantinople (W. Endriss Coll.), and about 120 British specimens from old collections.

The arrangement of the exhibited collection of British Cambrian, Ordovician, and Silurian Gastropoda and Lamellibranchia in table-case 16, gallery 8, has been completed.

The unexhibited Silurian Gastropoda from Austria-Hungary have been examined and arranged in case A 6, gallery 8.

The Triassic Gastropoda from St. Cassian are in course of arrangement.

The Mesozoic and Tertiary Gastropoda and Lamellibranchia registered, labelled, and incorporated during the year include:—The Caleb Evans Collection of British Cretaceous and Eocene shells (recorded in Proc. Geol. Assoc., vol. ii, 1871, p. 61); Senonian Lamellibranchia from flints in gravels near Peterhead, Scotland (A. M. Insch Coll.), some British Liassic Lamellibranchia, including specimens of *Gryphæa incurva* and its varieties, described and figured by John Jones, Proc. Cotteswold Nat. Field Club, vol. iii (1865), p. 85, pls. i–iv; a collection of Recent and Post-Tertiary shells from Hungary, presented by Mrs. N. Charles Rothschild; Pliocene shells from Roumania (Harold Dabell Coll.) and Italy; shells from the Norwich Crag (R. E. Leach Coll.); and marine Tertiary shells from Japan (G. Lewis Coll.) and Madeira (A. F. R. Blandy Coll.).

The nomenclature of the Cretaceous species of *Inoceramus*, Tertiary Scalidæ, and Post-Pliocene species of *Pisidium*, has been revised.

A collection of Post-Pliocene and Recent shells of *Melanopsis*, arranged by Dr. Toth Mihaly to illustrate the supposed evolution of the existing *Melanopsis parreyssi*, has been mounted for exhibition in wall-case 1, gallery 8.

A slab of Miocene limestone from France, covered with numerous specimens of *Aequipecten præscabriusculus*, has been framed and mounted on the wall between wall-cases 2, 3, gallery 8.

The Tertiary non-marine Mollusca from France, Germany, Slavonia, Croatia, Hungary, Roumania, and Turkey have been revised, arranged, and labelled; and a typical series from Germany has been mounted for exhibition in a small table-case in gallery 8.

Number of specimens of Mollusca registered: Cephalopoda, 621; Gastropoda, 4,543; Lamellibranchia, 1,813.

Arthropoda (Gallery 8 and Workroom).—The Cirripedia, Trilobita, and various Insects enclosed in amber have been the groups to receive most attention during the year.

Among Cirripedia registered, labelled, and incorporated are specimens from the Cretaceous rocks of England, France (Hutin Coll.), Belgium, and Westphalia; from the Oxfordian of Wiltshire; and from the Stonesfield Slate near Cheltenham (P. B. Brodie).

The Trilobites registered and incorporated include a series from the *Olenellus*-Limestone of Comley Quarry, Shropshire; Devonian specimens collected by Mrs. A. S. Woodward near Constantinople; over three hundred from the Cambrian and Ordovician of Vestrogothia, Nerike, and Dalecarlia (Bather Coll.); and specimens from numerous foreign localities.

Many of the Insects enclosed in Amber have been sorted and re-registered for study by various specialists.

Among the other Arthropods registered and incorporated are Ostracoda from rocks of supposed Tertiary age in the Phillippines (Warren D. Smith Coll.); Tertiary Insects from Shiobara, Japan (M. C. Stopes); a large series of interesting forms belonging to several groups found in Coal Measure nodules at Coseley, Staffordshire (Neil and other Collections).

The temporary exhibit of Miocene fossils from Florissant, Colorado, has been broken up, and the Arthropods have been transferred provisionally to a case adjacent to the systematic series of Insecta. The slip-catalogue of these fossils has been kept up to date.

The exhibited series of British Jurassic Cirripedes has been re-labelled, re-mounted, and re-arranged. A few additions have been made to the British Cretaceous series, notably those from the Sowerby Collection transferred from gallery 11.

A special selection of specimens illustrating the structure of the Trilobites has been prepared, labelled, and placed on exhibition. The British species of *Harpes* have been re-mounted and re-labelled after revision.

Interesting Carboniferous Arthropods of the genera *Pleurocaris*, *Palæocaris* [= *Prœanaspides*], *Pygocephalus*, and *Palæomachus*, have been specially investigated and placed on exhibition with explanatory labels.

A fine specimen of *Glyphœa cretacea* from the Totternhoe Stone of Hertfordshire (presd. by Wm. Hill, Esq.) has been added to the exhibited series of British Crustacea.

Number of specimens of Arthropoda registered, 1,121.

Echinoderma (Gallery 8).—The acquisitions registered, labelled, and incorporated during the year include:—Echinoids from the Chalk of England (Bower, Dibley, and C. Griffith Colls.), and of France (Hutin), from the Lower Greensand of Kent (Bullbrook), and from various European Tertiary localities; Echinoids, Asteroids, Ophiuroids, and Crinoids from

the Corallian and Bathonian rocks of France (Charpy), including the syntypes of *Millericrinus charpyi* and other specimens studied by P. de Loriol; Crinoids from the Oxfordian of Var (Michalet), from the Toarcian of the Balearic Islands (D. M. A. Bate), from the Carboniferous of Fife (J. Wright) and of Japan (G. Lewis); *Bourgueticrinus* from the Senonian of Hants (C. Griffith) and *Roveacrinus* from that of Sussex (Withers, Möckler); and Cystidea from the Ordovician of Bohemia.

The sorting and determination of the T. Wright Collection of foreign Echinoidea has been completed.

The chief work has been on Cystidea, partly in the preparation, sorting, and labelling of collections specially made in Sweden, partly in the comparison of the Museum collections with specimens lent from Scotland, Bohemia, and elsewhere, and in the preparation of replicas from all these latter. Considerable progress has been made with the slip-catalogue of Cystidea.

Among various additions to the exhibited series the most interesting is a set of the curious crinoid *Petalocrinus*, which has recently been found in the Woolhope Limestone (R. W. Pocock). The specimens, tablets, and labels in the exhibited series of Foreign Echinoidea in wall-cases 15, 16, have been cleaned.

A slip-catalogue has been started for all specimens of Echinoderma placed on exhibition with modern printed labels, and has the result of saving constant reference to the public galleries. (The same applies to Arthropoda and Annelida.)

Number of specimens of Echinoderma registered: Echinoidea, 293; Asteroidea and Ophiuroidea, 59; Crinoidea, 483; Blastoidea, 1; Cystidea, 27. Total, 863.

Annelida (Gallery 8 and Workroom).—The acquisitions registered, labelled, and incorporated during the year include various specimens from the Carboniferous of the British Isles (G. H. Morton and Bather Colls.).

Further studies have been made on the British Cretaceous Terebelloids, leading to a revision and re-labelling of several drawers and of the exhibited series, as well as the resultant acquisitions.

Number of specimens of Annelida registered, 25.

Brachiopoda (Gallery 8 and Workroom).—Progress has been made with the registration of the Walker Collection, all the British specimens (nearly 50,000 in number) having now been entered.

Numerous figured specimens, both in the Walker Collection and in the general collection, have been mounted and labelled for exhibition, and placed in the table-cases with the Davidson Collection. Records of these have been added to the slip-catalogue.

Number of specimens of Brachiopoda registered, 55,656.

Polyzoa (Gallery 8 and Workroom).—The collection of Cretaceous Cheilostome Polyzoa from France, and recently-acquired specimens from Spain and various English districts, chiefly Sussex, the Thames valley, and Cambridge, have been sorted, cleaned, mounted, and registered as a preliminary to the preparation of Vol. iii of the Catalogue of Cretaceous Polyzoa. Recently-acquired specimens from other formations have been registered, labelled, and incorporated, the largest collection of these, comprising 250 specimens from the Cornbrash and Great Oolite of Northamptonshire (Jesson Coll.).

Number of specimens of Polyzoa registered, 2,190.

Anthozoa and Hydrozoa (Gallery 10).—A table-top made of pieces of Devonian Corals, presented by the late W. Vicary, Esq., in 1881, has been removed from wall-case 5, where it was unsuitably exhibited, re-framed and hung on the wall between wall-cases 4 and 5, and a framed label placed beneath.

A large specimen of *Lophophyllum*, presented by Dr. James Galloway, has been cut, polished, and mounted with explanatory label in wall-case 4.

Newly-acquired specimens have been registered, labelled, and incorporated, from the Eocene and Cretaceous of Spain (Mrs. A. S. Woodward Coll.), Chalk Marl of Cambridge (Möckler), Carboniferous of Yorkshire (Wilmore), Devonian of Asia Minor (Mrs. A. S. Woodward), Silurian of Wales and Silurian of Sweden (Bather).

Number of specimens of Anthozoa and Hydrozoa registered, 627.

Porifera (Gallery 10).—The Taylor Collection of Archæocyathinæ has been exhibited in table-case 15 with explanatory diagrams and labels.

Framed explanatory labels have been attached to the large block of *Hydnoceras* exhibited in a special case at the northern end of gallery 10.

Chalk sponges from Surrey, Sussex, and Kent have been registered, labelled, and incorporated.

Number of specimens of Porifera registered, 41.

Protozoa (Gallery 10).—The collection of Jurassic Foraminifera mounted on about 2,350 slides has been labelled and transferred to a new cabinet, specially provided.

More of the samples of rock in the collection of the late Rev. J. F. Blake have been washed, and the contained fossils extracted, mounted, registered, and labelled. These include specimens from the London Clay of Elstree, and of Sheppey, the Chalk of Gravesend, the Gault of Folkestone, the Lower Greensand of Hythe, the Kimmeridge Clay of Weymouth, the Oxford Clay of Weymouth, and the Oolite Marl of Gloucestershire.

Recently-acquired specimens have been registered, labelled, and incorporated from the Miocene and Cenomanian of Japan (Yabe Coll.), Eocene and Cretaceous of Spain (Mrs. A. S. Woodward Coll,), Eocene of Austria, Senonian of Lüneberg (Möckler Coll.), the Kimmeridgian of Algeria (Welsch Coll.), the Bathonian of Northamptonshire (Jesson Coll.), the Upper and Lower Lias of Somerset (Möckler Coll.), and the Permian of Kansas.

Number of specimens of Protozoa registered, 912.

Plantæ (Gallery 10).—The Marcus Gunn Collection of Jurassic Plants from Sutherland, described and figured by Prof. A. C. Seward, has been prepared, registered, and labelled.

A large slab of *Lepidodendron lycopodioides* from the Coal Measures of Lancashire, has been prepared and mounted on the wall between wall-cases 16, 17. The section of trunk of *Pitys withami* beneath has been re-mounted.

In connection with the Catalogue, progress has been made with the revision of the Cretaceous plants.

Number of specimens of Plantæ registered, 321.

Tracks and Rock Specimens (Gallery 11.)—The specimens in wall-case 9 have been partly re-arranged and re-fitted to admit a large slab of tracks from the Palæozoic rocks of the Alleghany Mts., U.S.A., from the Geological Society's Museum.

Number of specimens registered, 21.

II.—*Duplicates and Exchanges.*

Duplicate fossils have been presented to the Royal Scottish Museum, Edinburgh; Oxford University Museum; Botanical Department, University of Sheffield; Zoological Department, University of Bristol; London Museum, Kensington Palace; London Hospital Medical College; Bethlem Hospital, London; Natural History Museum, Luxembourg; and Dr. R. S. Bassler, National Museum, Washington, D.C., U.S.A.

Exchanges of duplicate fossils have been made with the Geological Survey of Prussia, the University of Göttingen, the American Museum of Natural History; Dr. Karl Fischer; and Dr. L. H. Miller.

III.—*Departmental Library.*

The additions to the Library, which have been registered, stamped, catalogued, and press-marked, comprise 223 new works and pamphlets, of which 59 were purchased and 164 presented; 727 parts of serials in progress, of which 329 were purchased and 398 presented; 187 sheets of maps, of which 61 were purchased and 126 presented. 8 photographs were presented. 243 volumes were bound and press-marked. 2,330 visits were paid to the Library.

The following is an alphabetical list of personal donors to the Library during the year :—

Ameghino, Dr. Florentino
Andrée, Dr. K.
Andrews, Dr. Charles W.
Bather, Dr. Francis A.
Blochmann, Dr. F.
Boutchev, Dr. G.
Broili, Dr. Ferdinand
Canu, Ferdinand, Esq.
Crick, George C., Esq.
Fidge, Mrs.
Gregory, Prof. J. W.
Gude, G. K., Esq.
Irving, Rev. Alexander
Jackson, J. Wilfrid, Esq.
Jehu, Dr. Thomas J.
Johnson, Prof. T.
Jongmans, Dr. W. J.
Klinghardt, Dr. Franz
Lambe, Lawrence M., Esq.
Loukaschewitsch, J., Esq.
Lydekker, Richard, Esq.
Marriott, Major R. A.
Maslen, Arthur J., Esq.
Newton, R. Bullen, Esq.
Nopcsa, Baron F.
Nowak, Dr. Jan
Oliver, Prof. Francis W.
Outes, Dr. Felix F.
Pavlow, Dr. Marie
Potter, G., Esq.
Rabot, Charles, Esq.
Ravn, Dr. J. P. J.
Salfeld, Dr. H.
Schuchert, Prof. Charles
Seward, Prof. A. C.
Shelford, R., Esq.
Sherborn, Charles D., Esq.
Sinclair, W., Esq.
Sjögren, Dr. Otto
Springer, Frank, Esq.
Stefanini, Dr. Giuseppe
Steinmann, Prof. Gustav
Story-Maskelyne, Mrs.
Stuart-Menteath, P. W., Esq.
Tuzson, Dr. J.
Woodward, Dr. A. S.
Woodward, B. B., Esq.
Zeiller, Prof. Réné

IV.—*Publications.*

A new edition of the Guide Book to Fossil Invertebrata has been prepared and published.

The MS. of the first volume of the Catalogue of Cretaceous Plants has been completed.

The MSS. of the second part of the Catalogue of Marine Reptiles of the Oxford Clay, and of Fossil Fishes (Supplement), have made progress.

Apart from the official publications issued by the Trustees, the following descriptive papers dealing with different parts of the collection, chiefly recent acquisitions, have been contributed to scientific journals during 1911 :—

By Dr. A. S. Woodward.

1. The Fossil Fishes of the English Chalk, Part VII. Mon. Palæont Soc.

2. On some Mammal Teeth from the Wealden of Hastings. Quart. Journ. Geol. Soc., vol. lxvii., pp. 278–280.

3. Note on a Fossil Fish from Ekoi Creek, Southern Nigeria. Ann. Mag. Nat. Hist. [8], vol. viii., p. 207.

4. On the Upper Devonian Ostracoderm, *Psammosteus taylori*. *Loc. cit.*, pp. 649–652, pl. ix.

5. Note on Palæoniscid Fish-scales from the Ecca Shales, near Ladysmith. Ann. Natal Mus., vol. ii. (1910), pp. 229–231, pl. ix.

By Dr. F. A. Bather.

1. The Palæontology Exhibit at the White City, 1910 and 1911. Museums Journal, vol. x., pp. 306 313.

2. Notes on Crinoid plates from the Penshurst boring. Being Appendix II., Summary of Progress. Geol. Surv. Gt. Britain, 1910, pp. 78, 79.

3. The holotypes of the fossil scorpions *Palæomachus anglicus* and *Palæophonus caledonicus*. Ann. Mag. Nat. Hist. [8], vol. viii., pp. 673–677.

4. Upper Cretaceous Terebelloids from England. Geol. Mag. [5], vol. viii., pp. 481–487; 549–556, pl. xxiv.

By Mr. R. B. Newton.

1. On some Fossil Mollusca, etc., from Southern Nigeria collected by Mr. John Parkinson, M.A. Ann. Mag. Nat. Hist. [8], vol. viii., pp. 193–207, pl. vi.

2. A Sketch of the chief Geological Zones and their Mollusca. Proc. Malacol. Soc., vol. ix., pp. 282–305.

3. On the Modifications in Form of the Upper Tertiary Lacustrine Shells of the Island of Cos, as first observed by Edward Forbes and T. A. B. Spratt. *Loc. cit.*, pp. 363–368, pl. xii.

4. Kainozoic Mollusca from Cyrenaica. Quart. Journ. Geol. Soc., vol. lxvii., pp. 616–653, pls. xliii–xlvi.

By Dr. C. W. Andrews.

1. On the Structure of the Roof of the Skull and of the Mandible of *Peloneustes*, with some Remarks on the Plesiosaurian Mandible generally. Geol. Mag. [5], vol. viii., pp. 160–164.

2. Description of a new Plesiosaur (*Plesiosaurus capensis*, sp. nov.) from the Uitenhage Beds of Cape Colony. Ann. S. African Mus., vol. vii., pp. 309–322, pl. xviii.

3. Note on some Fragments of the Fossil Egg-shell of a large Struthious Bird from Southern Algeria, with some Remarks on some pieces of Egg-shell of an Ostrich from Northern India. Bericht über den V. Internationalen Ornithologen Kongress, Berlin, 1910, pp. 169–174.

4. Report on Bones from the Lake-dwellings in Holderness. Printed in Mr. Reginald A. Smith's paper "Lake-dwellings in Holderness, Yorks., discovered by Thos. Boynton, Esq., F.S.A." Archæologia, vol. lxii., p. 603.

By Mr. G. C. Crick.

1. Notes on Carboniferous Cephalopoda from the Neighbourhood of Exeter. Quart. Journ. Geol. Soc., vol. lxvii., pp. 399–413.

By Dr. W. T. Calman.

1. On *Pleurocaris*, a new Crustacean from the English Coal Measures. Geol. Mag. [5], vol. viii., pp. 156–160.

2. On some Crustacea of the Division Syncarida from the English Coal Measures. *Loc. cit.*, pp. 488–495.

By Mr. T. H. Withers.

1. Some Cirripedes from the Chalk of Salisbury, Wilts. Geol. Mag. [5], vol. viii., pp. 21–31.

By Baron F. Nopcsa.

1. Notes on British Dinosaurs, Part IV.: *Stegosaurus priscus*. Geol. Mag. [5], vol. viii., pp. 109–115, 145–153.

By Baron F. von Huene.

1. Ueber *Erythrosuchus*, Vertreter der neuen Reptil-Ordnung, Pelycosimia. Geol. u. Palaeont. Abhandl., n.s., vol. x., pp. 3–60, pls. i.–xi.

2. Beiträge zur Kenntniss und Beurtheilung der Parasuchia. *Loc. cit.*, pp. 67–121, pls. xii.–xix.

By Mr. D. M. S. Watson.

1. The Skull of *Diademodon*, with Notes on those of some other Cynodonts. Ann. Mag. Nat. Hist. [8], vol. viii., pp. 293–330.

By Mr. L. Hussakof.

1. Notes on some Upper Devonian Arthrodira from Ohio, U.S.A., in the British Museum. Geol. Mag. [5], vol. viii., pp. 123–129, pl. viii.

By Mr. G. E. Dibley.

1. On the Teeth of *Ptychodus* and their Distribution in the English Chalk. Quart. Journ. Geol. Soc., vol. lxvii., pp. 263–276, pls. xvii.–xxii.

By Mr. H. L. Hawkins.

1. On the Teeth and Buccal Structures in the genus *Conulus* Leske. Geol. Mag. [5], vol. viii., pp. 70–74, pl. iii.

2. On the Structure and Evolution of the Phyllodes in some Fossil Echinoidea. *Loc. cit.*, pp. 257–265, pl. xiii.

3. On the Tuberculation of the Holectypoida. *Loc. cit.*, pp. 442–454.

By Mr. G. K. Gude.

1. On some preoccupied Molluscan Generic Names and proposed new Genera of Zonitidæ. Proc. Malac. Soc., vol. ix., pp. 269–273.

2. A proposed new Genus of the Family Helicidæ. *Loc. cit.*, pp. 361–362.

By Mr. R. Shelford.

1. The British Museum Collection of Blattidæ enclosed in Amber. Journ. Linn. Soc., Zool., vol. xxxii., pp. 59–69, 1 pl.

By Dr. Ray S. Bassler.

1. The Early Palæozoic Bryozoa of the Baltic Provinces. Bull. U.S. Nat. Mus., No. 77, pp. 382, pls. xiii.

By Mrs. Rina Scott.

1. On *Traquairia*. Ann. Botany, vol. xxv., pp. 459–467, pls. xxxix., xl.

By Dr. Marie C. Stopes.

1. The "Dragon Tree" of the Kentish Rag, with Remarks on the Treatment of Imperfectly Petrified Woods. Geol. Mag. [5], vol. viii., pp. 55–59.

By Dr. R. Zeiller.

1. Étude sur le *Lepidostrobus browni*. Mém. Acad. Sci., Paris, vol. lii.

Various fossils in the Department of Geology have also been described and figured by Prof. S. H. Reynolds, Dr. R. H. Traquair, and Mr. H. Woods, in the Monographs of the Palæontographical Society, vol. lxv. for 1911.

V.—*Acquisitions.*

A.—*By Donation.*

The Geological Society of London's Collection of Colonial and Foreign Fossils, which, as now arranged in the Department of Geology, occupy 672 drawers and 2 wall-cases. They have been arranged geographically in the same order as in the Society's Museum, and represent all parts of the world. They include a large number of type and figured specimens, and specially illustrate memoirs and papers published by the Geological Society. Among European fossils may be mentioned the Daniel Sharpe Collection from Portugal; among Indian fossils, the C. W. Grant Collection from Cutch, the S. Hislop Collection from Central India, the South Indian fossils described by Prof. Edward Forbes, and the Nummulitic fossils forming the subject of a work by d'Archiac and Haime; among South African fossils, the Bain Collection described by Daniel Sharpe, and various Secondary fossils described by Prof. Ralph Tate; among other fossils, West Indian Tertiary Corals and Australian Tertiary Corals and Echinoderma described by Prof. Martin Duncan. *Presented by the Geological Society of London.*

A series of nine hundred and fifty invertebrate fossils from the Tertiary and earlier rocks of Egypt, namely, three hundred and seventy-eight Post-pliocene, nine Pliocene, seventy-six Miocene, two hundred and twenty-eight Eocene, two hundred

and fifty-three Cretaceous and six Palæozoic fossils. *Presented by the Director of the Geological Survey of Egypt.*

Mammalia.—The distal end of a femur of *Toxodon*, from the Rio Madeira, North Brazil. *Presented by E. Stanley Tutton, Esq.*

A portion of jaw, teeth and other remains of *Dinotherium* with remains of other Mammals, from a Tertiary deposit near Karungu, Victoria Nyanza. *Presented by C. W. Hobley, Esq., C.M.G.*

A molar tooth of *Elephas* from a superficial deposit on the river Prah, Gold Coast. *Presented by Lieut.-General Sir Reginald C. Hart, V.C., K.C.B.*

Bones of *Lutreola macrodon* from aboriginal shell-heaps, Flagg Island, Casco Bay, Maine. *Presented by Prof. F. B. Loomis.*

A lower molar of *Ursus* from a brickfield near Portslade Ry. Station, Brighton. *Presented by Dr. Eliot Curwen.*

A portion of a very large antler of Red Deer (*Cervus elaphus*), from the bank of the R. Yore, Yorkshire. *Presented by Lord Bolton.*

A skull and mandible of *Bos primigenius* from Chingford, Essex. *Presented by the Metropolitan Water Board.*

Remains of a skeleton of a Beaver from excavations at the Royal Albert Docks. *Presented by the Port of London Authority.*

A collection of Mammalian remains (horse, ox, deer, dog, &c.) from Neolithic lake-dwellings near Ulrome, Holderness, Yorkshire. *Presented by Thomas Boynton, Esq., F.S.A.*

Twelve plaster-casts of Human teeth from the St. Brelade Cave, Jersey. The originals in the Museum of the Société Jersiaise. *Presented by the Committee of the Société Jersiaise.*

Seven plaster-casts of fossil Mammalian remains in the Museum of the Geological Survey of Hungary. *Presented by Prof. Dr. L. Lóczy, Director.*

Reptilia.—A series of plaster casts of *Telerpeton* from the Trias of Elgin, Scotland. *Presented by Baron F. von Huene.*

A vertebra of *Ichthyosaurus* from the Trias of Sassen Bay, Spitzbergen. *Presented by Walter Child, Esq., A.R.S.M.*

A Dinosaurian vertebra from the Great Oolite, Thrapston, Northampton. *Presented by Thomas Jesson, Esq.*

A plaster cast of a tridactyl Reptilian foot-print from the Ashdown Sands, Jarvis Brook Well, Sussex. *Presented by Charles Dawson, Esq., F.S.A.*

A plaster cast of the skull and mandible of *Archelon ischyros*, from the Upper Cretaceous of Custer County, South Dakota, U.S.A. *Presented by the Peabody Museum of Natural History, per Prof. Charles Schuchert.*

The symphysis of a Chelonian mandible from the Barton Clay, Barton Cliff, Hants. *Presented by H. Eliot Walton, Esq.*

Eight plaster casts of fossil Reptilian remains in the Museum of the Geological Survey of Hungary. *Presented by Prof. Dr. L. Lóczy, Director.*

Pisces.—One *Rhadinichthys brevis* from the Calciferous Sandstone, Wardie, near Edinburgh (counterpart of B.M. No. P. 845). *Presented by Dr. R. H. Traquair, F.R.S.*

A group of fossil Fishes (*Semionotus capensis*) in Sandstone from Weltevreden, Senekal district, Orange Free State Province. *Presented by T. C. L. Bergstedt, Esq.*

A tooth of *Ceratodus* from the Rhætic of Garden Cliff, Westbury-on-Severn. *Presented by P. Charteris A. Stewart, Esq.*

Two fossil Fishes (*Mesodon* and *Pleuropholis*) from the Middle Purbeck Beds, Teffont, Wilts. *Presented by T. T. Gething, Esq.*

One Fish (*Osmeroides*) from the Totternhoe Stone and one head of *Enchodus* from the Lower Chalk, near Hitchin. *Presented by William Hill, Esq.*

Two fish-fragments, probably Cretaceous, from Southern Nigeria, described by Dr. A. S. Woodward, Ann. Mag. Nat. Hist. [8], vol. viii., 1911, pp. 207, 208. *Presented by the British Colonial Petroleum Corporation, Ltd.*

Eleven tubes of Fish-otoliths from the Red and Coralline Crags. *Presented by Alfred Bell, Esq.*

A tooth of *Carcharodon* from Sweet River, near Paradise, Jamaica. *Presented by Charles M. Calder, Esq.*

Mollusca.—A plaster cast of the holotype of *Murchisonia intermedia*, a Gastropod from the Devonian of the Eifel (the original in the Deshayes Collection, École des Mines, Paris). *Presented by Mrs. Longstaff.*

Two Cephalopods, collected by the donor, from the Devonian of Kartal, near Constantinople. *Presented by Mrs. A. S. Woodward.*

Two blocks of weathered Carboniferous Limestone with Gastropods, &c., from the shore of Lower Lough Erne. *Presented by Major Herbert Trevelyan.*

An Ammonite from the Trias of Sassen Bay, Spitzbergen. *Presented by Walter Child, Esq., A.R.S.M.*

Two specimens of *Dactylioceras semicelatum* from the Upper Lias of Port Mulgrave, Yorkshire. *Presented by James Francis, Esq.*

Three Belemnites and five Ammonites from the Toarcian rocks of Cabrera, Balearic Islands. *Presented by Miss D. M. A. Bate.*

An Ammonite (*Macrocephalites*) from the Fullers Earth, Lansdown, Bath. *Presented by W. P. Workman, Esq.*

Two specimens of *Unio kendalli* from the Lower Oolites (Estuarine Series), Saltwick, near Whitby. *Presented by J. Wilfrid Jackson, Esq.*

An Ammonite (*Aspidoceras perarmatum*), from the Middle Oolite of Brora, Sutherland. *Presented by Master Nigel Gunnis.*

Alectryonia in a small block of Kimmeridge Clay from Swindon. *Presented by Charles H. Gore, Esq.*

An Ammonite from the Portlandian of Swindon. *Presented by Mrs. Croft.*

One *Pecten gaultinus* from the Albian of Stonebarrow Cliff, Charmouth, Dorset. *Presented by W. D. Lang, Esq.*

One *Nautilus* from the Chalk Rock, Cherhill, near Calne. *Presented by Mr. T. H. Withers.*

One Hippurite from the Cretaceous and one *Pecten* from the Tertiary of Persia. *Presented by Mrs. E. J. Clifton.*

Forty-four Mollusca (*Reineckia*, *Perisphinctes*, *Ostrea*) from the Mesozoic rocks of France, and nine Mollusca, including *Ostrea crassissima*, from the Cainozoic rocks of Algeria. *Presented by Prof. Jules Welsch.*

An Ammonite from the Mesozoic, and nineteen Mollusca from the Tertiary, collected by the donor in Colombia, South America. *Presented by Dr. Arthur R. Andrew.*

Twenty-four Mollusca, collected by John Parkinson, Esq., in the Secondary and Tertiary formations of Southern Nigeria, described by R. B. Newton, Ann. Mag. Nat. Hist. [8], vol. viii., pp. 183–207, pl. vi. *Presented by the British Colonial Petroleum Corporation, Ltd.*

Twelve Gastropods (*Planorbis* and *Limnaea*) from the Bartonian Beds, Paris. *Presented by Monsieur E. de Boury.*

Seven Pectiniform shells from the Miocene of S. Maria, Azores. *Presented by Walter Child, Esq., A.R.S.M.*

A piece of fresh-water Limestone, containing *Valvata piscinalis*, from the Post-Pliocene of Pargkong Lake, Ladak, Thibet. *Presented by Lieut.-Col. H. H. Godwin-Austen, F.R.S.*

Five Mollusca from the Tertiary of the Adana Province of Asia Minor. *Presented by Messrs. Thompson and Hunter.*

Two specimens of *Unio littoralis* from the Post-Pliocene, Clacton, Essex, showing the well-preserved ligament. *Presented by S. Hazzledine Warren, Esq.*

Twelve Gastropoda and six Lamellibranchia from a raised beach, Zeib, Red Sea. *Presented by Harold Dabell, Esq.*

Arthropoda.—Five Trilobites (*Agnostus*, *&c.*) from the Upper Cambrian, Malvern Hills. *Presented by H. D. Acland, Esq.*

One Trilobite (*Acidaspis*) and two plaster casts of the counterpart of the same, from the Ordovician, near Castle Gorfod Mill, St. Clears, Carmarthen. *Presented by John Innes, Esq.*

382 Trilobites and other Arthropods collected by the donor from the Cambrian and Ordovician of Sweden. *Presented by Dr. F. A. Bather, F.R.S.*

Two Trilobites (*Homalonotus armatus*) from the Devonian of the Eifel, and one Trilobite from the Lower Devonian, Katzenberg, near Mayen. *Presented by Upfield Green, Esq.*

A plaster cast of the type-specimen of an Arachnid (*Maiocercus orbicularis*, Gill) from the Coal Measures, Westhoughton, Lancs. (the original in the Chadwick Museum, Bolton). *Presented by E. Leonard Gill, Esq.*

A Crustacean (*Glyphæa*) from the Totternhoe Stone, near Hitchin. *Presented by William Hill, Esq.*

Two valves of Cirripedes (*Scalpellum longissimum* and *Loricula expansa*) from the Chalk of East Harnham, near Salisbury. *Presented by Dr. H. P. Blackmore.*

Two Ostracods from the English Crag, from the collection of the late Prof. T. Rupert Jones. *Presented by C. D. Sherborn, Esq.*

Echinoderma.—An almost complete crown of *Petalocrinus* from the Woolhope Limestone, near Woolhope. *Presented by R. W. Pocock, Esq.*

Sixteen cups of a Crinoid (cf. *Ulocrinus*) from the Lower Carboniferous, E. of St. Monans, Fife, and fifteen Crinoids from the Carboniferous, Invertiel, Fife. *Presented by James Wright, Esq., jun.*

Six Crinoid fragments and one piece of Crinoidal Limestone from the Carboniferous of Calderwood Glen, near Glasgow. *Presented by Dr. F. A. Bather, F.R.S.*

A piece of Crinoidal Limestone from the Carboniferous Limestone of Kingweston Hill. *Presented by S. G. Perceval, Esq.*

Seven Crinoid stem-fragments from the Toarcian rocks of Cabrera, Balearic Is. *Presented by Miss D. M. A. Bate.*

Seven portions of Crinoids from the Lower Jurassic near Niort (Deux Sévres). *Presented by M. l'Abbé Boone.*

Three specimens of *Echinocorys* and seventeen specimens of *Bourgueticrinus* from the Chalk of Hampshire, figured in Griffith and Brydone's "The Zones of the Chalk in Hants." *Presented by C. Griffith, Esq.*

Ten Crinoids (*Roveacrinus*) from the Chalk of Seaford. *Presented by Mr. T. H. Withers.*

Two Echinoids (*Stegaster*) from the Campanian of France. *Presented by Prof. Jules Welsch.*

Three radioles of the Echinoid *Cidaris websteriana* from the Barton Beds, Barton Cliff, Hants. *Presented by H. Eliot Walton, Esq.*

One Echinoid (*Echinolampas*) from the Tertiary of the Adana Province of Asia Minor. *Presented by Messrs. Thompson and Hunter.*

One Echinoid (*Echinolampas*), probably Miocene, from near Kassala, E. Sudan. *Presented by Lieut.-Col. L. Worthington Wilmer.*

One Echinoid from the Miocene of Algeria. *Presented by Prof. Jules Welsch.*

Three Echinoids from the Helvetian, Côtes-du-Nord. *Presented by Monsieur E. de Boury.*

One Echinoid, collected by the donor from the Tertiary of Colombia, South America. *Presented by Dr. Arthur R. Andrew.*

Annelida.—Three specimens of the Annelid bed from the Carboniferous of Calderwood Glen, near Glasgow. *Presented by Dr. F. A. Bather, F.R.S.*

A piece of limestone showing worm-borings from the Bathonian, Dundry Hill, Bristol. *Presented by C. D. Sherborn, Esq.*

Annelid tubes from the Great Oolite, Northampton. *Presented by Thomas Jesson, Esq.*

One Annelid (*Terebella ? lewesiensis*) from the Chalk, Whyteleafe, Surrey. *Presented by Mr. T. H. Withers.*

Brachiopoda.—Six Brachiopods from the Carboniferous Limestone of Tockington, Gloucestershire. *Presented by S. G. Perceval, Esq.*

Rhynchonella inconstans in a small block of Kimmeridge Clay from Swindon. *Presented by Charles H. Gore, Esq.*

Polyzoa.—A piece of Polyzoan shale from the Devonian of Loue (Sarthe). *Presented by M. l'Abbé Boone.*

Two blocks of weathered Carboniferous Limestone with Polyzoa, &c., from the shore of Lough Anlaban, Co. Fermanagh. *Presented by Major Herbert Trevelyan.*

Nineteen Polyzoa from the Inferior Oolite of Gloucestershire. *Presented by Miss H. Mary Hutton.*

An Oyster encrusted with *Berenicea* from the Portlandian of Durlston Head. *Presented by Ivan Thatcher, Esq.*

Three Polyzoa from the Red Chalk of Hunstanton. *Presented by Thomas Jesson, Esq.*

Five Polyzoa from the Gault, Black Ven, and one Polyzoan (*Cellulipora ornata, var. devonica*) from the Upper Greensand, Stonebarrow Cliff, Charmouth, Dorset. *Presented by W. D. Lang, Esq.*

One Polyzoan from the Chalk of Goring. *Presented by Mr. T. H. Withers.*

Thirty-five Polyzoa from the Chalk of various English localities. *Presented by H. J. Osborne White, Esq.*

Two specimens of Polyzoan Limestone from the Miocene of Algeria. *Presented by Prof. Jules Welsch.*

Anthozoa and Hydrozoa.—A Graptolite from the Skiddaw Slates, Barf, Cumberland. *Presented by John Postlethwaite, Esq.*

A piece of a limestone-lenticle containing Corals, probably of Wenlock age, from Porthluney, S.W. of Mevagissey, Cornwall. *Presented by C. D. Sherborn, Esq.*

Eighteen Corals, collected by the donor, from the Devonian of Kartal, near Constantinople. *Presented by Mrs. A. S. Woodward.*

A collection of a hundred and two Corals, and fifty-three thin sections of the same, characterizing the zones and subzones of the Lower Carboniferous rocks, being the specimens described and figured in the donor's papers on the Bristol district and elsewhere. *Presented by Dr. Arthur Vaughan.*

Thirty Corals, illustrating the donor's paper on the Carboniferous Limestone S. of the Craven Fault, Quart. Journ. Geol. Soc. 1910, vol. lxvi., p. 539. *Presented by Dr. Arthur Wilmore.*

Eight Corals from the Carboniferous Limestone and Oolite of England. *Presented by W. H. Wickes, Esq.*

One Coral (*Trochocyathus*) from Ebbsfleet boring, Pegwell Bay, Kent. *Presented by W. A. Hubbard, Esq.*

One Hydrozoan from the Upper Chalk, Hogsback, Guildford. *Presented by Alfred Bell, Esq.*

One Hydrozoan (*Spinopora dixoni*) in a Chalk flint. *Presented by J. H. A. Verinder, Esq.*

A Coral, collected by the donor, from the Tertiary of Colombia, South America. *Presented by Dr. Arthur R. Andrew.*

Porifera.—An organism, either a Sponge or *Archæocyathus*, from the Cambrian of the I. of Skye. *Presented by F. Ross Thompson, Esq.*

A Sponge from the Greensand, I. of Wight. *Presented by Gregory Jones, Esq.*

Protozoa.—Three Foraminifera (*Spirocyclina*) from the Jurassic of Algeria. *Presented by Prof. Jules Welsch.*

Three Foraminifera from the Cenomanian and Miocene of Japan. *Presented by Dr. H. Yabe.*

A piece of Orbitoidal Limestone from the Eocene of Southern Nigeria, described and figured by R. B. Newton, Ann. Mag. Nat. Hist. [8], vol. viii. (1911), pp. 202–206, text-fig. on p. 206. *Presented by the British Colonial Petroleum Corporation, Ltd.*

Plantae.—A piece of shale with *Stigmaria ficoides*, from 1,700 ft. below O.D., Mattice Hill boring, Kent. *Presented by W. A. Hubbard, Esq.*

Five fossil leaves from the Rantau Panjang Coal Measures, Federated Malay States. *Presented by the Senior Warden of Mines, Federated Malay States.*

A small collection of fossil plants from the Upper Coal Measures, Somersetshire. *Presented by H. J. Cyril Wyatt, Esq.*

One plant (*Otozamites*) from the Callovian of France. *Presented by Prof. Jules Welsch.*

One plant from the Mesozoic of Colombia, South America, collected by the donor. *Presented by Dr. Arthur R. Andrew.*

Two Nullipores from the Miocene of S. Maria, Azores. *Presented by Walter Child, Esq., A.R.S.M.*

Two dicotyledonous leaves from the Tertiary of the Adana Province of Asia Minor. *Presented by Messrs. Thompson and Hunter.*

Fossil wood from the foot-hills of Mount Elgon. *Presented by A. C. Hollis, Esq.*

A piece of fossil wood from Puerto Madryn, Chubut. *Presented by Reginald Pinnell, Esq.*

Rock Specimens.—Six wind-worn pebbles from the Um-Esh Plain, Eastern Desert, Egypt. *Presented by A. Wade, Esq.*

B.—*By Purchase.*

Mammalia.—Left upper and lower jaws, four fragments of lower jaws, humerus, femur, tibia and astragalus of *Brachyodus borbonicus*, from the Oligocene, Bouches-du-Rhône, France.

Skull and mandible of *Brachyodus cluai*, and three other fragments of the same mammal, from the Oligocene of Tárrega, Lérida, Spain.

Mandible of Mammoth from River Save, Hungary.

Reptilia.—One *Saltopus*, one *Scleromochlus*, two *Stenometopon*, one *Ornithosuchus*, three *Telerpeton*, and various fragments of *Telerpeton* from the Trias of Elgin (William Taylor Coll.).

A portion of a skull of *Placodus* from the Muschelkalk of Bayreuth.

Portions of skeletons of *Peloneustes, Ophthalmosaurus, Steneosaurus*, and other reptilian remains from the Oxford Clay of Peterborough (Leeds Coll.).

A group of Crocodilian scutes from the Purbeck Beds, Swanage.

The skeleton of *Goniopholis crassidens* described and figured, Quart. Journ. Geol. Soc., 1907, pp. 50–63, pls. ii.-iv., and a portion of a similar specimen; skeleton of *Ornithodesmus latidens*, and fragments of three other skeletons of the same; all from the Wealden Cliffs near Atherfield, I. of Wight (R. W. Hooley Coll.).

Reptilian remains from the Chalk of S.E. England.

Fifteen Crocodilian and Chelonian remains from the Oligocene of Tárrega, Lérida, Spain.

Pisces.—Fifty Fishes from the Upper Silurian of Lanarkshire (Frank White Coll.).

Fish-remains from the Upper Old Red Sandstone of Morayshire, including *Psammosteus taylori* (William Taylor Coll.).

Teeth of *Ptyctodus* from the Upper Devonian of Iowa.

Five Rhaetic Fishes from Hirtenstein, Austria.

Spathobatis, *Ischyodus*, and *Caturus furcatus* from the Lithographic Stone, Bavaria.

Fifteen Fishes from the Upper Jurassic (Lithographic Stone) of Santa Maria de Meyá, Province of Lérida, Spain.

Pleuropholis from the Purbeck Stone, Chilmark Quarries, Wilts.

Thirteen Fish-remains from the Chalk of the South-east of England.

Two Fishes from the Cretaceous of the Lebanon, and a jaw of *Coelodus* from the Cretaceous of Syria.

Two Fishes (*Amphistium*) from the Eocene of Monte Bolca.

Mollusca.—Mollusca from the Lower Silurian and Lower Carboniferous of Great Britain.

A hundred and seventy-five Cephalopoda from the Devonian and Trias, near Constantinople.

Two specimens of *Beneckia buchi* from the Trias of Baden.

One *Rostellaria sub-punctata* from the Dogger of Würtemberg.

Eleven Cephalopods and fourteen Lamellibranchs and Gastropods from the Lower Greensand of Kent.

Caprina schiozensis from the Turonian of Italy.

Seventeen Ammonites and three Nautiloids from the Chalk of the South-east of England.

Sixteen Cephalopods, two Lamellibranchs, and one Gastropod from the Yorkshire Chalk.

Two Ammonites from the Cretaceous of Syria.

Eighty-three Mollusca from the European and American Cretaceous.

One *Nautilus lamarcki* and one *Aturia aturi* from the Tertiary of Belgium.

Ostraea crassissima from the Miocene of Marchfield, near Vienna.

A slab of *Aequipecten* from the Miocene of Vaucluse, France.

Fifty-seven Miocene shells from Coquimbo, Chili (Wolffsohn Coll.).

Thirty-eight Post-Pliocene Helicidæ from Corsica.

Pleistocene marine shells from the South of Scotland.

Arthropoda.—Ten Arthropoda from the Upper Silurian of Lanarkshire (Frank White Coll.).

Six hundred Ostracoda, &c., from the Silurian of Gotland.

One *Pterygotus* from the Lower Old Red Sandstone, Turin Hill, Forfar.

Five Trilobites from the Carboniferous of Belgium.

Thirteen Cirripedes from the Cretaceous of North France.

Fourteen Blattidæ in amber from the Oligocene of East Prussia.

Echinoderma.—Three Cambrian Cystids from Bohemia.

Ten Crinoids from the Silurian of the Baltic.

Fifty Crinoids (*Petalocrinus*, &c.) from the Woolhope Limestone.

Two Crinoids from the Devonian near Constantinople.

One *Batocrinus* from the Carboniferous of Ireland.

Four specimens of *Ophioderma bonnardi* from the Rhaetic of Würtemberg.

One *Cidaris minutus* from the Lias of Würtemberg.

One *Hyboclypeus ovalis* from the Inferior Oolite of Gloucestershire.

One Echinoid and ninety fragments of Crinoids from the Corallian of Var, France.

Twenty-seven Crinoids (*Antedon lorioli, Phyllocrinus cyclamen, Cyrtocrinus, Sclerocrinus tenuis* and *strambergensis*) from the Tithonian of Stramberg, Germany.

Four Echinoids from the Lower Greensand of Kent.

Fifty-eight Echinoderms, &c., from the Chalk of Lincolnshire (C. R. Bower Coll.).

Twenty-two Echinoids from the Chalk of the South-east of England.

Eight Echinoderms from the Cretaceous of North France.

One Echinoid from the Cretaceous of Syria.

A hundred Holothurian remains from the London Clay.

Annelida.—One worm from the Lower Greensand of Kent.

One *Serpula felixi* from the Eocene of Barcelona.

Brachiopoda.—Twenty-eight Brachiopoda from the Trias and Devonian, near Constantinople.

Polyzoa.—Three hundred thin sections of Russian Ordovician Polyzoa (R. S. Bassler Coll.).

Sixty-seven Polyzoa from the Bradford Clay.

Two hundred and fifty Polyzoa from the Cornbrash near Northampton (Jesson Coll.).

Five thousand small fossils, chiefly Polyzoa, from the Chalk Marl of Cambridge (F. Möckler Coll.).

Two hundred and ninety Polyzoa from the Chalk, chiefly of the Thames Valley.

Twenty-eight Polyzoa from the Chalk of the South-east of England.

Three hundred and sixty minute fossils, chiefly Polyzoa, from the Chalk of the Chatham district (W. Gamble Coll.).

Coelentera.—A hundred and twenty-seven Graptolites from the Ordovician of Wales.

Eleven Devonian Corals from near Constantinople.

One *Astræa* from the Miocene of Gironde, France.

Protozoa.—One *Fusulina ventricosa* from the Permian of Kansas, U.S.A.

Two hundred and sixteen Foraminifera from the English Lias.

Sixty slides and a hundred tubes of Foraminifera from the Cretaceous of Saxony.

Three hundred and four Foraminifera from the Upper Chalk of Lüneberg, Hanover.

Alveolina bosii and *Asilina spira* from the Eocene of Austria.

Four thousand five hundred Foraminifera from the Lower Oligocene of Alsace, Germany.

Plantae.—Three slabs of *Lepidodendron lycopodioides* from the Lower Coal Measures of Bolton.

Specimens and a set of plaster casts and photos of a large specimen of *Lepidodendron tongeii* from the Lower Coal Measures of Bolton.

Four micro-slides of *Lepidodendron obovatum.*

Two micro-sections of *Sigillaria elegans.*

Four plants from the Culm, and one plant from the Rhaetic of Germany.

Rock specimens.—Three rock specimens from the Lower Greensand of Kent.

In addition to the Collection of Colonial and Foreign Fossils presented by the Geological Society of London (p. 178), the total accessions during 1911 are as follows:—

A.—VERTEBRATA:		
By Donation	136	
„ Purchase	193	
„ Exchange	76	
		405
B.—INVERTEBRATA:		
By Donation	1,924	
„ Purchase	13,215	
„ Exchange	152	
		15,291
C.—PLANTÆ:		
By Donation	35	
„ Purchase	15	
		50
D.—ROCK SPECIMENS:		
By Donation	7	
„ Purchase	3	
		10
TOTAL		15,756

VI.—*Students and Visitors.*

The number of visits paid to the Department by students and other persons for the purpose of consultation or study during 1911 was 6,038.

VII.—*Demonstrations.*

Six parties were received in the Galleries of the Department of Geology, and demonstrations were given as follows:—

February 11th.—Teachers of the London County Council Schools (31); Dr. Woodward.

February 18th.—The Battersea Field Club (17 members); Dr. Bather.

February 25th.—The Geologists' Association (39 members); Dr. Woodward and Mr. Lang.

March 4th.—Teachers of the London County Council Schools (29); Dr. Woodward.

March 18th.—Teachers of the London County Council Schools (26); Dr. Woodward.

March 25th.—Teachers of the London County Council Schools (22); Dr. Woodward.

Arthur Smith Woodward.

Department of Mineralogy.

I.—*Arrangement.*

Sixteen new cubes, each containing five drawers, have been fitted beneath the table-cases in the Gallery; and many of these drawers have been utilised for the reception of reserve specimens of zeolites and calcites.

A series of specimens to illustrate the minerals mentioned in the Bible has been selected from the General Collection, and arranged and labelled in a case in the Central Hall.

The Collections, comprising some 17,000 specimens, of foreign rocks and minerals recently presented by the Geological Society of London, have been arranged, and a catalogue in which details of each Collection are entered on separate slips has been prepared. The work of separating duplicates and of selecting specimens of minerals and rocks suitable for a students-series is in progress.

Seventy-nine boxes or parcels of mineral specimens have been received, unpacked, and examined; seventy-three boxes or parcels have been packed and despatched.

II.—*Registration, Indexing, and Cataloguing.*

All the specimens acquired during the year, with the exception of the large series of foreign rocks received from the Geological Society, have been registered, numbered, labelled, and incorporated with the Collection.

The preparation of the slip-catalogues of the mineral-specimens in the Collection, species by species, and of permanent labels giving all available information for each specimen, has now been completed for the Elements, Arsenides, Sulphides and Sulphur-salts (Table Cases 1–8). In the course of this work permanent labels have been written, checked and placed in the Collection with the specimens of copper-pyrites, tetrahedrite, pyrargyrite, etc., to the end of the Sulphur-salts; faded register-numbers have been re-written; unsightly labels have been transferred to the back of specimens, and 1,693 specimens acquired before 1837 or with the Allan-Greg Collection in 1860, have been entered in the General Register. The registration of specimens hitherto referred to only in old Catalogues has been completed for the Haloid Division and the Oxide Division as far as Corundum inclusive. In the Division of the Silicates also, a slip list has been made of all specimens belonging to the species pyroxene, amphibole, apophyllite, okenite, gyrolite, pectolite, talc, meerschaum, hemimorphite and chrysocolla, which have not been entered in the General Register.

The preparation of a slip-catalogue of the topographical rock collections has been begun.

Two hundred and thirty thin-slices of rocks have been microscopically examined, and have been entered in the slip-catalogue.

Four hundred and forty-six locality, species, and variety labels have been prepared, printed, and placed in the exhibition cases, and the corresponding entries have been made in the alphabetical and topographical indexes of localities.

Five thousand four hundred and twenty thin-slices of rocks have been cleaned, and the register-numbers have been written on them with a diamond.

III.—*Preparation.*

One hundred and eight thin-slices of rocks and meteorites have been prepared.

IV.—*Investigation.*

Crystallographic and optical investigations have been made of celsian, paracelsian and natrolite from a new occurrence in North Wales, and of zeolites (including phacolite, gmelinite, analcite and natrolite) from the basalts near Belfast.

Crystals of an unknown mineral from the Binnental have been measured, and their morphological characters determined.

A large and curiously developed crystal of anatase from the Binnental has also been examined.

Crystals of zircon and tourmaline from Ceylon, phenacite and prehnite from Cornwall, apophyllite from Durham, and artificial crystals of gypsum have been measured.

Specimens of the following minerals have also been examined: atacamite, calcite, caracolite, cassiterite, chrysoberyl, epidote, idocrase, labradorite, marcasite, paratacamite, pectolite, spessartite, spinel, wollastonite, and zircon.

The materials of certain worked stones in the Collection at Bloomsbury have been determined and named.

A spherulitic dolerite from Natal, presenting remarkable structural features, has been microscopically examined, and a description of the rock has been prepared for publication.

Collections of rocks from Kerguelen Land, Dutch New Guinea, the Channel Islands, Stonehenge and other localities have been examined.

Stone implements from Malta have been examined, and the materials of which they consist determined.

A chemical investigation has been made of a meteoric stone which fell on 28 June, 1911, at El Nakhla el Baharia, Egypt.

In the chemical laboratory, quantitative analyses have been made of sepiolite from Weardale, bismutite from South Africa, tilasite and fermorite from India, cordierite from Finland, staurolite from Switzerland, and the meteoric stone from Egypt; and many doubtful minerals have been qualitatively analysed.

V.—*Donations of Duplicates.*

Duplicate specimens of minerals have been given to the Museum of the Geological Survey of India.

VI.—*Departmental Library.*

Arrangement.—Letters relating to the business of the Department have been arranged in order.

Cataloguing and Press-marking.—1,364 volumes and 354 title-slips have been press-marked. All the accessions, including 778 plates, have been catalogued and stamped.

Proofs of the Library Catalogue have been read and checked against the slip-catalogue in the Department.

Accessions.—59 volumes of separate works, 31 periodicals (in 389 volumes and parts), 40 pamphlets, 19 parts of works, 13 mining reports, and 23 sheets of maps have been added to the Library. These were acquired as follows:—

By presentation.—11 volumes of separate works, 10 periodicals (in 120 volumes and parts), 33 pamphlets, 2 parts of works, 13 mining reports and 6 sheets of maps.

By purchase. — 44 volumes of separate works, 19 periodicals (in 265 volumes and parts), 2 pamphlets and 7 parts of works.

By transfer.—4 volumes of separate works, 2 periodicals (in 4 volumes and parts), 5 pamphlets, 10 parts of works and 17 sheets of maps.

Binding.—82 volumes have been bound.

VII.—*Publications.*

New editions of the Student's Index to the Collection of Minerals (24th Edition) and A Guide to the Mineral Gallery (11th Edition) have been issued.

The following papers, relating to specimens in the collection, have been published in the "Mineralogical Magazine and Journal of the Mineralogical Society," 1911, vol. 16:—

"On Schwartzembergite": by G. F. H. Smith and G. T. Prior (p. 77).

"On Fermorite, a new arsenate and phosphate of lime and strontia, and Tilasite, from the Manganese-ore deposits of India": by G. F. H. Smith and G. T. Prior (p. 84).

"The larger Diamonds of South Africa": by L. J. Spencer (p. 140).

VIII. *Acquisitions.*

18,274 specimens have been acquired, namely:—

316 minerals, 17,952 rocks, and 6 meteorites.

Exchanges of specimens have been made with the University Museum, Oxford (through Professor H. L. Bowman); the

Senckenberg. Naturforschende Gesellschaft, Frankfurt-am-Main (through Dr. W. Schauf); and Signor Francesco Mauro, of Milan.

The specimens acquired by presentation (arranged alphabetically according to donors), and by exchange, and the more important of those obtained by purchase are as follows :—

Minerals.

By Presentation :

Native copper and coal from Russian Turkestan: by Dr. A. Adiassevich.

Artificial avanturine glass: by Commendatore Arbib.

Idocrase and axinite in metamorphic rocks from Cornwall: by George Barrow, Esq.

Zircon, orthoclase, and a pseudomorph of quartz after calcite; occurrences of Portuguese minerals newly discovered by the donor: by Antonio Maria d'Oliveira Bello, Esq.

Cassiterite, isolated crystal, from Swaziland, South Africa: by R. H. Bray, Esq.

Cassiterite from Northern Nigeria: by S. G. Brounger, Esq.

Caracolite from Chili: by Lazard Cahn, Esq.

Molybdenite from Jersey: by Walter Child, Esq.

Chlorargyrite and huantajayite from Chili: by F. G. Clarke, Esq.

Malachite from Rhodesia: by W. H. Clarke, Esq.

Anthracite and tremolite in metamorphosed dolomite, from Transvaal: by Dr. G. S. Corstorphine.

Ironstone nodule from Northern Nigeria: by H. S W. Edwardes, Esq.

Calcite with dolomite, on coal, from South Shields, Co. Durham: by the Rev. Mark Fletcher.

Tourmaline, a fine large crystal, from Pala, California; fluor-spar, a large, pink, transparent octahedron, from the granite at Striegau, Silesia; apophyllite, a fine specimen showing pink crystals of tabular habit, from Andreasberg, Harz; apophyllite and faroelite lining a long tubular cavity in basalt from Belfast; hyalite in rhyolite from Co. Antrim: by F. N. A. Fleischmann, Esq.

Iron-pyrites and barytes from Westphalia: by Paul Grundhoff, Esq.

Asphaltum from Alberta, Canada: by A. von Hammerstein, Esq.

Monazite from Northern Nigeria: by R. T. Hancock, Esq.

Chromite from Queensland: by P. Harris, Esq.

Strüverite from Black Hills, South Dakota: by Dr. Frank L. Hess.

Souesite from Fraser River, British Columbia: by Dr. G. Christian Hoffmann.

Iron-pyrites crystals from Chili: by F. A. Homer, Esq.

Beryl from Madagascar, 2 faceted stones; fire-opal from Mexico, polished specimen: by Edward Hopkins, Esq.

Bog-butter (butyrellite) from Oldtown bog, Co. Antrim: by Dr. W. E. Hoyle.

Tilasite, a large twinned crystal, from Kajlidongri manganese mine, Central India: by the Director, Geological Survey of India.

Autunite from Sabugal, Portugal; and "liver-blende" from Broken Hill, New South Wales: by E. W. Janson, Esq.

Flint from Co. Antrim: by J. Gregory Jones, Esq.

Gypsum, artificially produced twinned crystals: by Frank E. Lott, Esq.

Wolframite from Portugal: by William McEwan, Esq.

Coal from Matabeleland, South Africa: by A. Molyneux, Esq.

Pectolite and apophyllite from Weardale, Co. Durham: by Messrs. Monkhouse and Peart.

Ambrite in coal from New Zealand: by T. P. Moody, Esq.

Garnet, large crystals in Gneiss, from Labrador; bitumen from Deer Lake, Newfoundland: by J. M. Moubray, Esq.

Bog-butter (butyrellite), a large spherical mass from Donegal: by Captain A. W. Reid.

Specimens of British minerals recently collected by the donor, illustrating occurrences not hitherto represented in the Collection; viz., blende from Shropshire; autunite on slab of granite from Cheesewring quarry, Cornwall; tetrahedrite from Co. Tipperary: by Arthur Russell, Esq.

Cobaltite crystals from Sweden: by Mrs. Cecilia Sandell.

Rhodochrosite from Nassau, and emery from Naxos: by Dr. W. Schauf.

Moldavite from Bohemia: by His Highness Prince Adolf Joseph Schwarzenberg, Duke of Krumau.

Cassiterite (magnetic and pseudomorphous), and tourmaline crystals, from Perak, Federated Malay States: by J. B. Scrivenor, Esq.

Mirabilite from South Victoria Land (collected by the British Antarctic Expedition, 1907–9): by Sir Ernest H. Shackleton, C.V.O.

Chalcedony enclosing liquid ("enhydros"), five Specimens from Banda, India: by H. G. S. Tyler, Esq.

Banded flint from Beckenham, Kent: by A. Verinder, Esq.

Montmorillonite and quartz from France: by Professor Jules Welsch.

Beekite from Co. Antrim: by W. H. Wickes, Esq.

By Exchange:

Monazite with fluor from Transvaal.

Calcite, twinned crystals of a rare type, from Somersetshire.

Brugnatellite from Lombardy.

By Purchase:

A collection of 225 orientated micro-sections of rock-forming minerals.

Choice crystallized specimens of various North of England minerals, viz.: Witherite from Hexham and Alston, quartz from Weardale and Frizington, barytes from Frizington.

British minerals selected from the collection of the late Mr. F. Fry, of Bristol (*e.g.*, pharmacosiderite from Cornwall, strontianite from Dublin, agate and goethite from Cheddar, calcite from Torquay).

Crystallized kaolinite from Glamorganshire.

Calcite and calamine from the present workings at Wanlockhead, Dumfriesshire.

Oligoclase, risörite, and sphene from Norway.

Childrenite from Greifenstein, Saxony.

Chabazite, stilbite, prehnite, albite, microcline, and epidote from the granite at Striegau, Prussian Silesia,

Anatase, a very large pyramidal crystal, from Binnental, Switzerland.

Chrysocolla, cuprite, chalcedony, and hæmatite from Sassari, Sardinia.

Whewellite, pyrrhotite, natrolite, and calcite, from Bohemia.

Hessite, large distinct crystals, from Botes, Transylvania.

Various minerals from the Ural Mountains, including beryl, corundum, epidote, hæmatite, muscovite, rutile, and chromeidocrase (a new variety of idocrase of a beautiful green colour).

Native tantalum from Altai Mts., Siberia.

Allanite, chloropal, fergusonite, thorite, tourmaline, and zircon from Ceylon.

Various species illustrating Japanese occurrences; viz., amethyst, andalusite, cassiterite, columbite, pseudogaylussite, scorodite, topaz.

Gypsum, two large twinned crystals (40 and 14 lb. in weight), from Cloncurry, Queensland.

Topaz and emerald, specimens showing the associated minerals, from Emmaville, New South Wales.

A series of beautifully crystallized minerals (chessylite, cerussite, and calamine) and distinctly formed pseudomorphs of malachite after chessylite, from the copper mines at Otavi, German South-West Africa.

A series of specimens from the gem mines in central Madagascar; including hambergite crystals (one of large size), spodumene ("kunzite"), cordierite; also corundum from South-West Madagascar.

Breithauptite and erythrite from Cobalt, Ontario.

Various specimens illustrating American occurrences, *e.g.*, Garnets from New York, Maine, and Connecticut; anatase, brookite, and sphene from Somerville, Massachusetts; calcite from Lake Erie and Joplin, Missouri; eglestonite and calomel from Palo Alto, California; iridosmine from California; childrenite from Hebron, Maine; herderite, an isolated crystal and a group of clear crystals, from Auburn, Maine; benitoite crystals on matrix from San Benito County, California; quartz, group of twinned crystals (Japanese twin-law) from New Mexico; zincite crystals, willemite, rhodonite, hancockite, and gageite from the zinc mines at Franklin Furnace, New Jersey; enargite, large cleavage masses from Red Mtn., Colorado; native copper, a fine large mass of distorted crystals, weighing 57 lb. from Houghton, Michigan; beryl, a portion of a very large, transparent, pink crystal of tabular habit, from Cahuilla, California.

Livingstonite, in bladed crystals, from Huitzuco, Mexico.

Cassiterite, large twinned crystals, from Bolivia.

The following mineral names added to the Museum List were previously not represented by specimens in the Collection :—

Chrome-idocrase, gageite, neocolemanite, pilbarite, souesite, yttrofluorite.

Rocks.

By Presentation :

Rock specimens from Palestine: by H. D. Acland, Esq.

28 rock specimens collected by the donor in Colombia, South America; 114 rock specimens collected by the donor in Nyasaland: by Dr. Arthur R. Andrew.

Limestone and "kolm" from Vestergötland; gneissose granite from Dalecarlia: by Dr. F. A. Bather, F.R.S.

22 rock specimens from a small island (Trinity Island) discovered by the donor in the Antarctic: by Captain H. Borge.

Rock specimens from Dutch New Guinea, collected by the British Ornithologists' Union Expedition, 1910: by the British Ornithologist's Union.

Rock specimens collected by the donor in Spitzbergen; 15 rock specimens collected by the donor in the Channel Islands (Jersey, Alderney, Herm, and Sark): by Walter Child, Esq.

A collection of 34 glacial boulders from the coast of Norfolk : by Dr. W. Carruthers, F.R.S.

Metamorphosed limestone from Tortworth, Gloucestershire : by Rt. Hon. the Earl of Ducie.

Sandstone from Grinshill quarries, Shrewsbury : by John Fawdry, Esq.

Shale from Nova Scotia and New Brunswick : by Mrs. M. Gates.

Volcanic dust and lapilli from St. Vincent, West Indies : by Dr. St. G. Gray.

Perlitic structure shown in canada-balsam : by Mrs. Rupert Jones.

Hæmatite-schist from Uganda : by Robin Kemp, Esq.

Rock specimens from the Lleyn peninsula, Carnarvonshire : by W. B. R. King, Esq.

"St. Katharine's" Marble, rough and polished samples, from Durango, Spain : by Messrs. Arthur Lee and Brothers, Ltd.

Aplite and granite from Nigeria : by H. J. Lofting, Esq.

Rock specimens from Northern Nigeria : by Miss MacLeod.

174 rock specimens and samples of volcanic ash collected by Dr. Tempest Anderson and Dr. G. S. Flett in the West Indies after the eruptions of the Soufrière, St. Vincent, in 1902 : by the Royal Society of London.

Rock specimens from a boring in South Africa : by T. J. W. Ryley, Esq.

Quartz-porphyry passing into sericite-schist from Taunus Mts. : by Dr. W. Schauf.

Chips from a sacred stone in British New Guinea : by Dr. C. G. Seligmann.

154 rock specimens collected by the British Antarctic Expedition, 1907–9 : by Sir Ernest H. Shackleton, C.V.O.

New rock types (assyntite, cromaltite, ledmorite, ledmorite-pegmatite, and melanite-syenoid) from Ledmore, Sutherlandshire, recently described by the donor : by Dr. S. J. Shand.

Quartz-porphyry from Yass, New South Wales : by A. J. Shearsby, Esq.

Slate from Cornwall : by C. Davies Sherborn, Esq.

Rock specimens from Ayrshire : by John Smith, Esq.

Micro-sections of rocks from Stonehenge, Wiltshire, described by Professor N. Story-Maskelyne, F.R.S., in 1877 : by Mrs. Story-Maskelyne.

By Purchase :

Latite, bostonite, nordmarkite, etc. from American localities.

A collection of 50 specimens taken at measured points in the new Loetschberg tunnel, Wallis, Switzerland.

A series of 70 hand-specimens and thin-sections, illustrating the occurrence of alkali rocks in the Serra de Monchique, Portugal.

Meteorites.

By Presentation:

El Nakhla el Baharia, Alexandria, Egypt. Meteoric stones (2 fragments weighing 725 and 274 grams) which fell on 28 June 1911: by the Director, Geological Survey of Egypt.

Shytal, India, a fragment weighing 14·8 grams; also fragments of piddingtonite and daubreelite: by Mrs. Story-Maskelyne.

By Purchase:

Borodino, Moscow, Russia, a fragment weighing 1·4 grams of the stone which fell on 5–6 September, 1812.

Muonionalusta, Norrboten, Sweden, a slice weighing 142·5 grams of the iron found in 1906.

Angela, a mass of iron weighing 4,341 grams from the nitrate deposits of the Oficina Angela, Tarapaca, Chili.

Vigarano, Ferrara, Italy, a fragment weighing 147 grams of the stone which fell on 22 January 1910.

Those meteorites of which the names are italicized belong to falls hitherto unrepresented in the Museum Collection.

IX.—*Students and Visitors.*

The number of visits recorded as made to the Department for the purposes of consultation or study is 682.

The Gallery being no longer reserved on particular days of the week for use by students, and study-series having been so arranged as to be directly accessible to the public, and so labelled as to render reference to the staff for information thereon almost completely unnecessary, it has become difficult to distinguish, for statistical purposes, "Students" of minerals from ordinary "Visitors," and stress can no longer be laid on the distinction.

G. T. Prior.

Department of Botany.

I.—*Arrangement and Conservation.*

During the past year 26,375 specimens have been incorporated with the Herbarium. This number includes 20,550 Flowering Plants, 7 Vascular Cryptogams, 118 Mosses, 103 Hepatics, 191 Lichens, 112 Algæ, and 5,294 Fungi.

Flowering Plants.—Collections have been mounted and incorporated wholly or in part as follows:—Small British collections from various donors, including Revs. E. S. Marshall and H. J. Riddelsdell, Messrs. G. C. Druce and W. A. Davis, and Major A. H. Wolley-Dod; Europe, Herb. Normale, Dörfler; European Rubi (Sudre); Flora Italica (Fiori and Béguinot); Turkestan (Adiassewick); Persia (Strauss); China (Schindler); Siam (Hosseus); Malaya (Ridley); Elmer (Philippine Islands); Libyan Desert (Harding King); Angola (Gossweiler); Nigeria and Cameroons (Talbot, MacLeod, Kitson); Liberia (Bunting); Rhodesia and Congo (Kassner, Chubb) and other Tropical African collections; South Africa (Rudatis, Pegler, Schlechter); S. Domingo (Türckheim); Cuba (Shafer); Mexico (Purpus); Bolivia (Conway Expedition); Paraguay (Fiebrig); Sandwich Islands (Faurie). Progress has been made with the selection, determination and incorporation of the early Australian collections; and the unincorporated extra-European specimens of a number of families of Dicotyledons have been mounted and incorporated. The European material of the early families of Dicotyledons has been separated from the General Herbarium and rearranged according to Nyman's "Conspectus Floræ Europææ." Work of revision and rearrangement has been done also in the following families: Verbenaceæ, Rubiaceæ, Piperaceæ, Urticaceæ, and in the genera *Lupinus, Tephrosia, Lobelia, Jasminum, Pentstemon, Polygonum* (British species) and others.

Ferns.—The series of plates has been rearranged; some small collections from Liberia (Bunting), New Zealand (Henley) and Borneo (Gibbs) have been determined, and critical work has been done on various genera and species.

Bryophyta.—A collection of Mosses from India and collections of Hepatics from South America and New Zealand have been incorporated. Small collections have been determined from Britain, S. America, Tahiti and New Zealand. Work of revision has been done on various genera.

Lichens.—Progress has been made with the incorporation of British Lichens. The revision of the Pyrenocarpei has been completed.

Algæ.—Collections have been determined and in part incorporated from South Africa (Tyson), the Indian Ocean, Singapore (Ridley), China, N.W. America and the Kermadec Islands (Oliver). Work of revision and rearrangement has been done

in the genera *Udotea, Codium, Callophyllis, Fucus* and *Sargassum*. The collection of microscopic slides has been rearranged owing to the accession of some new cabinets.

Fungi.—The general collection has been brought up to date and all outstanding specimens incorporated in the groups Hymenomycetes and Gasteromycetes; and progress has been made with the incorporation of the Uredineæ. Some British specimens collected during the year have been determined and incorporated.

Exhibition Series.—Various specimens have been added to the general series in the Public Gallery, and work has been commenced preparatory to the rearrangement of the exhibition of Algæ. Progress has been made with the exhibition of a series of British Lichens, and with the selection and preparation of specimens and drawings for exhibitions of British Seaweeds and British Hepatics. The exhibition in the Central Hall illustrating the general characters of Seed-plants has been completed; and work is in progress on the exhibition of Cryptogams. A representation of Bible-plants has been prepared in connection with the exhibition illustrating the Natural History of the Bible.

Catalogues and Guides.—The second edition of the *Monograph of the Mycetozoa* by Miss Gulielma Lister has been completed and published; and progress has been made with the preparation of the continuation of the *Flora of Jamaica* by Mr. Fawcett and Dr. Rendle, and with the revision of the first volume of the *Catalogue of British Lichens* by Miss Annie Lorrain Smith. A *Guide* to the Bible-plants exhibited in the Hall has been prepared, and progress has been made with the preparation of a *Guide* to the exhibition of British Lichens.

II.—*Investigation.*

Collections have been determined either wholly or in part from the following localities and collectors:—Gazaland (Swynnerton), Nigeria, North Cameroons and Lake Chad district (Talbot, MacLeod, Kitson), Liberia (Bunting), Angola (Gossweiler), Rhodesia and Congo (Kassner), Libyan Desert (Harding King).

Work of investigation has been carried on on the African species of *Crotalaria* and *Indigofera* by Mr. Baker, on several genera of Rubiaceæ by Mr. Wernham, on the Jamaican species of several families of apetalous Dicotyledons by Mr. Fawcett and Dr. Rendle, on various genera of Algæ by Mr. and Mrs. Gepp, and on the British Lichens by Miss A. Lorrain Smith; on numerous genera of Californian plants by Miss A. Eastwood (of California), on American Mosses by Mrs. E. G. Britton, and on various other families and genera by numerous British and foreign Botanists. Also on various genera of the British Flora, especially *Polygonum, Rumex, Chenopodium, Atriplex, Salsola, Plantago* and *Rosa* by various workers at British

Botany. Undetermined material has been lent for study and determination as follows:—African specimens of the family Euphorbiaceæ to the Director of the Royal Gardens, Kew, in connection with the preparation of the *Flora of Tropical Africa;* African Ebenaceæ to Mr. W. P. Hiern, F.R.S.; Asiatic Crassulaceæ to M. Raymond Hamet, Paris; African Leguminosæ to Mr. S. T. Dunn, Kew; specimens of *Xyris* to Dr. G. Malme, Stockholm; of Characeæ to Mr. H. Groves and of Mycetozoa to Miss G. Lister.

In connection with work done in the Department specimens have been generously lent by the Government of Jamaica, and the Directors of the Royal Gardens, Kew, of the Herbarium of the Paris Museum, of the Botanical Museum, Zürich, of the Royal Botanic Museum, Munich, and of the Botanical Department of the Royal Natural History Museum, Stockholm.

III.—*Departmental Library.*

1. *Arrangement.*—A new press has been fitted in the window alcove in the Library to relieve the presses allotted to periodicals in progress, which are at present much overcrowded. The accessions to the collection of plates of flowering plants and ferns have been mounted and incorporated, and the rearrangement of the plates of ferns has been completed. A number of autograph letters have been added to the collection.

2. *Cataloguing and Pressmarking.*—The usual routine work of registering, stamping, cataloguing and pressmarking has been carried out; and Departmental work in connection with the General Catalogue of Books has been continued.

3. *Accessions.*—The additions during the past year have been, by donation, 255 volumes, 961 pamphlets; by purchase 187 volumes, 1 pamphlet—in all, 442 volumes, 962 pamphlets. These include 26 periodicals in 119 parts, presented, and 89 periodicals in 705 parts, purchased—in all, 115 periodicals in 824 parts.

The following is a list of the principal donors:—F. M. Bailey, C.M.G., F.L.S.; R. T. Baker, F.L.S.; Société Royale de Botanique de Belgique; Director, Agricultural Research Institute, Pusa, Bengal; Rev. E. Blatter, S.J.; Rev. E. N. Bloomfield, M.A.; T. S. Brandegee, B.S.; Directeur, Institut Botanique Léo Errera, Bruxelles; Directeur, Jardin botanique de l'État, Bruxelles; Secretaire de l'État Independant du Congo, Bruxelles; Dept. de l'Agriculture aux Indes Neerlandaises, Buitenzorg; Cardiff Naturalists' Society; Dr. William Carruthers, F.R.S.; Director, Royal Botanic Gardens, Peradeniya, Ceylon; Mrs. Agnes Chase; Miller Christy, F.L.S.; L. Cockayne, Ph.D., F.R.S.; E. Collinder, Esq.; Prof. H. H. Dixon, Sc.D., F.R.S.; H. N. Dixon, M.A., F.L.S.; J. F. Duthie, B.A., F.L.S.; Miss Alice Eastwood; the Regius Keeper, Royal Botanic Garden, Edinburgh; A. H. Evans, M.A.; Prof. A. J. Ewart, D.Sc., Ph.D., F.L.S.; Dr. Emil Hassler; Board of

Agriculture and Forestry, Territory of Hawaii; Director, Botanical Survey of India; Secretary of State for India; Prof. Marcus E. Jones, A.M.; Dr. Frans Kempe; Director, Royal Botanic Gardens, Kew; Secretary of Kew Guild; Frau A. Koorders-Schumacher; Prof. Henri Lecomte; the Secretary, Lichen Exchange Club, Leicester; Director, Rijks Herbarium, Leiden; C. G. Lloyd, Esq.; Board of Agriculture and Fisheries, London; Linnean Society of London; Royal Botanic Society, London; Royal Horticultural Society of London; Director, Dept. of Agriculture, Melbourne; Nederlansche Botanische Vereeniging, Nijmegen; the Hon. Secretary for Agriculture, New South Wales; the Under-Secretary for Lands, New Zealand; M. P. Porsild, M.Sc.; Prof. Francis Ramaley, M.S. C. B. Robinson, Ph.D.; Director, Missouri Botanic Garden, St. Louis, Mo., U.S.A.; Director, Botanic Gardens, Singapore; H. C. Smith, F.C.S.; W. G. Smith, F.L.S.; Director, Botanic Gardens, Sydney, N.S.W.; Miss J. E. Tilden, M.S.; Tōkyō Botanical Society, Tōkyō, Japan; H. S. Walker, Esq.; United States National Museum, Washington, U.S.A.; the Hon. Secretary, Watson Botanical Exchange Club; Prof. G. S. West, M.A., D.Sc.; J. Medley Wood, A.L.S.; Director, Botanic Garden and Museum, Zürich.

The following acquisitions other than books have been received:—53 drawings of specimens, chiefly of abnormalities in Fungi, by W. G. Smith, and 5 drawings of specimens of flowering plants by Mary E. Lawrance.

4. *Binding.*—183 volumes have been bound; these include three volumes of the Sloane Herbarium. A number of volumes have been repaired.

IV.—*Publications.*

(1) *Issued by the Trustees.*—A Monograph of the British Lichens. Part II. By Miss A. Lorrain Smith.

A Monograph of the Mycetozoa. By Mr. A. Lister. Second Edition, revised by Miss G. Lister.

(2) *Issued by the permission of the Trustees.*—A Contribution to our knowledge of the Flora of Gazaland, being an account of collections made by C. F. M. Swynnerton, Esq. By Dr. Rendle, E. G. Baker, S. Moore and A. Gepp. (Journal of Linnean Society).

Some plants from Liberia collected by Mr. R. H. Bunting. By Dr. Rendle, E. G. Baker, H. F. Wernham and S. Moore. (Journal of Botany.)

New species of *Crotalaria*. By E. G. Baker. (Deutscher Zentral-Afrika Expedition, 1907-1908.)

Two new African Leguminosæ. By E. G. Baker. (Fedde Repertorium Sp. Nov. 1911.)

A new *Aeolanthus* from the Congo. By H. F. Wernham. (Journal of Botany.)

Revision of the genus *Hamelia*. By H. F. Wernham. (Journal of Botany.)

A new genus of Rubiaceæ. By H. F. Wernham. (Journal of Botany.)

The genus *Canephora*. By. H. F. Wernham. (Journal of Botany.)

The Codiaceæ of the Siboga Expedition, including a Monograph of Flabellarieæ and Udoteæ. By A. and E. S. Gepp.

Marine Algæ from the Kermadecs. By A. and E. S. Gepp. (Journal of Botany.)

Alabastra Diversa, Parts XX and XXI. Rubiaceæ and Acanthaceæ Africanæ Novæ. By S. Moore. (Journal of Botany.)

Wayfaring Notes in Rhodesia. By R. F. Rand; with identifications by Members of the Staff. (Journal of Botany.)

(3) *By Students of the Collections other than Members of the Staff.*—The Grewias of Roxburgh. By J. R. Drummond. (Journal of Botany.)

A List of British Roses. By Major A. H. Wolley-Dod. (Journal of Botany.)

Viola tricolor var. *sabulosa* Cand. By Dr. F. N. Williams. (Journal of Botany.)

The Hepatics of New Zealand. By Miss L. S. Gibbs. (Journal of Botany.)

New Lichens. By Miss A. Lorrain Smith. (Journal of Botany.)

Lichenes.—Clare Island Survey. By Miss A. Lorrain Smith. (Proceedings, Royal Irish Academy.)

New or Rare Microfungi. By Miss A. Lorrain Smith. (Transactions, British Mycological Society.)

Two New Species of Mycetozoa. By Miss G. Lister. (Journal of Botany.)

Merceyopsis, a New Genus of Mosses, with further contributions to the Bryology of India. By Mr. H. N. Dixon. (Journal of Botany.)

Teneriffe Mosses. By Mr. H. N. Dixon. (Journal of Botany.)

Hyophilopsis, a New Genus of Pottiaceæ, with further contributions to the Bryology of India. By Mr. H. N. Dixon. (Journal of Botany.)

Craibia, a New Genus of Leguminosæ. By Mr. S. T. Dunn. (Journal of Botany.)

Some Species of *Salicornia*. By Dr. C. E. Moss. (Journal of Botany.)

Notes on *Limonium*. By Mr. C. E. Salmon. (Journal of Botany.)

Algological Notes. By Prof. G. S. West. (Journal of Botany.)

V.—*Acquisitions.*

(1) *By Donation.*

Additions to the British Herbarium have been received from the following donors:—H. N. Dixon, Esq., 34 microscope slides of prehistoric Mosses; G. C. Druce, Esq., 59 specimens; W. Fawcett, Esq., 5 specimens; C. P. Hurst, Esq., 3 specimens; Rev. E. S. Marshall, 91 specimens; W. E. Nicholson, Esq., 2 specimens; Prof. D. Oliver, 50 specimens; Rev. H. J. Riddelsdell, 105 specimens; C. E. Salmon, Esq., 20 specimens; H. S. Thompson, Esq., 3 specimens; Major A. H. Wolley-Dod, 258 specimens of Roses, and 49 specimens of *Mentha;* and single specimens from Messrs. W. H. Burrell, T. Doggitt, A. B. Jackson, B. Reynolds, G. W. Ricketts, R. B. Rogers and W. G. Smith.

The following donations have been made to the General Herbarium:—

Europe.

Miss D. Bates, 10 specimens from Majorca; Dr. Beille, 4 specimens of Fumaria from Herb. Clavaud; Dr. M. C. Cooke, 27 microscope slides of Freshwater Algæ; M. A. Fenton, Esq., 3 specimens from Spitzbergen; Miss D. M. Higgins, 227 specimens from South of Spain; A. B. Jackson, Esq., 9 specimens from La Mortola.

Asia.

A. Adiassewick, Esq., 63 specimens from Turkestan; Prof. W. Arnoldi, 7 Algæ from Aru Islands; C. J. Brooks, Esq., 5 Ferns from Sarawak; J. R. Drummond, Esq., 193 specimens from India; Rev. Prebendary H. E. Fox, 718 Phanerogams and 11 Ferns from Palestine, collected by B. T. Lowne; H. French Ridley, Esq., 130 specimens from Ko-ko-Nor, N.W. China; and single specimens from Messrs. K. Minakata and H. Takeda, and Lt.-Col. H. B. Thornhill.

Africa.

Miss Armitage, 2 specimens from Egypt; G. L. Bates, Esq., 23 specimens from South Cameroons; Rev. Prebendary H. E. Fox, 147 Phanerogams and 45 Ferns from the Canary Islands, also 42 Ferns from Madeira, collected by H. B. Tristram; W. J. Harding King, Esq., 36 specimens from Libyan Desert; A. E. Kitson, Esq., 102 Phanerogams, 2 Cryptogams and 4 Fruits from South Nigeria; Liberian Rubber Corporation, 169 Phanerogams and 3 Cryptogams from Liberia, collected by R. H. Bunting; Miss O. MacLeod, 138 Cyperaceæ and Gramineæ from North Nigeria, North Cameroons and Lake Chad district; J. O'Brien, Esq., 3 Orchids

from Uganda, collected by J. Hughes; Hon. W. Rothschild, F.R.S., specimen and drawing of *Cynomorium coccineum*, and 3 photographs of Terebinth taken near Laghouat, Algeria; Mr. and Mrs. P. A. Talbot, 1,551 Phanerogams, 50 Cryptogams and 98 Fruits from North Nigeria, North Cameroons, Lake Chad district and Oban, South Nigeria; and single specimens from Miss Manuelli and A. J. C. Molyneux, Esq.

Australasia.

W. V. Fitzgerald, Esq., 12 specimens from West Australia, collected by M. Kock; Miss L. S. Gibbs, 51 Hepaticæ from New Zealand; Miss A. Henley, 3 specimens of Kauri Gum, 1 Palm and 46 Ferns from New Zealand; R. Kirkpatrick, Esq., 7 Cryptogams from Christmas Island; Dr. W. J. S. Lockyer, 27 specimens from Late Island, near Vavau, "Eclipse Expedition."

America.

A. Bennett, Esq., 58 Phanerogams and 18 Cryptogams mostly from America; Colonial Secretary, through the Director of Agriculture, Jamaica, 92 specimens from Jamaica; Sir W. Martin Conway, 1,135 specimens from Bolivia, collected by R. S. Williams; Dr. M. C. Cooke, 8 Fungi mostly from North America; Miss B. M. Gosset, 3 Orchids from Jamaica; R. H. Howe, Esq., 11 Mosses from Newfoundland; and specimen of *Bacopa* from Dr. N. L. Britton.

Cultivated Plants.

A. Berger, Esq., specimens of cultivated *Mesembryanthemum*; E. A. Bowles, Esq., specimen of cultivated *Aster Falconeri*; Chelsea Physick Garden, 32 specimens for exhibition purposes; Prof. C. V. Piper, 20 specimens of cultivated *Mucuna*; J. T. Winkworth, Esq., abnormal flowered specimen of Bee Orchid.

General.

Rev. D. Lillie, 50 Hepaticæ, mostly tropical.

(2) *By Purchase.*

British Isles.

W. A. Davis, 35 Lichens from Cambridge, prepared by C. du Bois Larbalastier; C. E. H. Smith, 21 specimens of prepared Fungi; B. Corfe, 7 drawings of Fruits of British Umbelliferæ.

Europe.

Dörfler, Herb. Normale, Cent. LIII and LIV; O. Jaap, 100 Fungi selecti and 20 Myxomycetes; Kabát and Bubák, 50 Fungi Imperfecti; A. Kneucker, 29 specimens of Carices; K. W. Krieger, 50 Fungi Saxonici; J. Mikutowicz, 200 Baltic Mosses; V. Schiffner, 50 European Hepatics; J. Schiller, 30 Adriatic Algæ; H. Sudre, 50 specimens Batotheca Europæa

and 50 specimens Hieracia; Sydow, 100 German Fungi, and 25 Phycomycetes and Protomycetes; A. Toepffer, 50 specimens Salicetum exsiccatum; Tranzschel and Serebrianikow, 200 Russian Fungi; T. Vestergren, 50 Micromycetes Rariores Selecti; T. O. Weigel, 400 specimens Erbario Crittogamico Italiano, 50 Mosses of Finland prepared by V. T. Brotherus and Flora Italica Cent. XIII and XIV, including 21 micro-sections of woods, prepared by A. Fiori and A. Béguinot.

Asia.

J. Bornmüller, 84 Persian plants collected by T. Strauss; A. D. E. Elmer, 922 Phanerogams and 188 Cryptogams from the Philippine Islands; U. Faurie, 109 Lichens from Japan and Corea; F. Wilms, 611 Phanerogams and 50 Cryptogams from China, collected by A. K. Schindler.

Africa.

J. Gossweiler, 556 Phanerogams and 82 Cryptogams from Angola; T. Kassner, 106 specimens from Katanga, Central Africa; A. Pegler, 100 specimens from Kentani district; Rev. F. A. Rogers, 190 specimens chiefly from Rhodesia and Belgian Congo; F. Wilms, 352 Phanerogams and 6 Vascular Cryptogams from Natal, collected by H. Rudatis.

Oceania.

U. Faurie, 1,130 Phanerogams and 1,168 Cryptogams from the Sandwich Islands; J. E. Tilden, 58 Phanerogams and 81 Cryptogams from the South Pacific Islands.

America.

E. Bartholomew, 200 Fungi Columbiani and 200 Uredineæ; T. S. Brandegee, 459 Phanerogams and 21 Cryptogams collected in Mexico by C. A. Purpus; Collins, Holden and Setchell, 125 North American Algæ; C. C. Haynes, 20 American Hepatics; R. B. Hough, 25 specimens of American Woods; G. K. Merrill, 75 Lichens, mostly North American; W. F. Rosenberg, 90 Ferns from Peru, collected by C. O. Schunke; I. Urban, 247 Phanerogams and 35 Cryptogams from St. Domingo, collected by H. von Türckheim.

General.

M. A. Miedbrodt, 100 Marine Algæ; H. Rehm, 66 Ascomycetes; E. M. Reineck, 340 Phanerogams and 153 Cryptogams; V. Schroeder, 85 tropical Ferns determined by E. Rosenstock; Sydow, 100 Uredineæ and 25 Ustilagineæ.

(3) *By Exchange of Duplicates.*

Director, Royal Botanic Museum, Berlin, 1,082 Phanerogams and 68 Cryptogams from tropical Africa and 47 Phanerogams and 3 Cryptogams from Caroline Islands; Director, Royal Botanic Gardens, Calcutta, 91 specimens from India; Director, Royal Gardens, Kew, 21 specimens of *Pedicularis* from North West India; Director, Botanic Garden, New York, 414 Phanerogams from Cuba, and 159 Mosses and 168 Hepaticæ from North

and South America; Director, Herbarium, Museum of Natural History, Paris, 681 Phanerogams with 151 drawings, and 77 Vascular Cryptogams, mainly Chinese; Director, Imperial Botanic Gardens, St. Petersburg, 25 specimens from Turkestan; Director, Botanic Gardens, Singapore, 387 Phanerogams and 91 Cryptogams from Malay Peninsula; Director, National Herbarium, Sydney, 13 specimens of *Eucalyptus*; Curator, Botanical Department, Hofmuseum, Vienna, 200 Cryptogams, mostly European; W. A. Davis, 269 specimens of British Hieracia.

VI.—*Students and Visitors.*

The number of visits to the Department for consultation and research during the year was 3,084, as compared with 3,009 in 1910, 2,712 in 1909, 2,315 in 1908, and 2,245 in 1907. Numerous specimens and small collections have been named for visitors and correspondents; in this, the Staff have received valuable help from Miss A. Lorrain Smith (Fungi and Lichens), and Mrs. Gepp (Algæ).

VII.—*Demonstrations.*

Demonstrations have been given by Dr. Rendle to the Wimbledon Natural History Society and to groups of students on several occasions.

A. B. Rendle.

RETURN.

BRITISH MUSEUM.

1912.

Ordered, by The House of Commons, *to be Printed,*
22 *April* 1912.

LONDON:
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE.
To be purchased, either directly or through any Bookseller, from
WYMAN AND SONS, LTD., FETTER LANE, E.C., and 32, ABINGDON STREET, S.W.; or
OLIVER AND BOYD, TWEEDDALE COURT, EDINBURGH; or
E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

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EYRE AND SPOTTISWOODE, LTD., EAST HARDING STREET, E.C.
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1912.

RETURN.

BRITISH MUSEUM.

1913.

Ordered, by The House of Commons, *to be Printed,*
8 *April* 1913.

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and 54, ST. MARY STREET, CARDIFF; or
H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or
E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN;
or from the Agencies in the British Colonies and Dependencies,
the United States of America, the Continent of Europe and Abroad of
T. FISHER UNWIN, LONDON, W.C.

1913.

57 *Price* 10½*d.*

BRITISH MUSEUM.

RETURN to an Order of the Honourable The House of Commons, dated 13 March 1913;—*for*,

COPY "of Account of the INCOME and EXPENDITURE of the BRITISH MUSEUM (SPECIAL TRUST FUNDS) for the Year ending the 31st day of March 1913; and, RETURN of the Number of PERSONS admitted to visit the MUSEUM and the BRITISH MUSEUM (NATURAL HISTORY) in each Year from 1907 to 1912, both Years inclusive; together with a STATEMENT of the PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and an ACCOUNT of OBJECTS added to them in the Year 1912."

Treasury Chambers,
8 April 1913.

C. F. G. MASTERMAN.

(*Sir William Anson.*)

Ordered, by The House of Commons, *to be Printed*, 8 *April* 1913.

LONDON:
PRINTED UNDER THE AUTHORITY OF HIS MAJESTY'S STATIONERY OFFICE
BY EYRE AND SPOTTISWOODE, LTD., EAST HARDING STREET, E.C.,
PRINTERS TO THE KING'S MOST EXCELLENT MAJESTY.

To be purchased, either directly or through any Bookseller, from
WYMAN AND SONS, LTD., FETTER LANE, E.C., and 32, ABINGDON STREET, S.W.
and 54, ST. MARY STREET, CARDIFF; or
H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or
E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN;
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the United States of America, the Continent of Europe and Abroad of
T. FISHER UNWIN, LONDON, W.C.

1913.

Price 10½*d.*

57

BRITISH MUSEUM
OFFICE
1 AUG 1913

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I.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

		Cash.	Stock, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCES on the 1st April 1912 - - -		8 9 1	13,659 3 2
- DIVIDENDS received on 13,659*l.* 3*s.* 2*d.* Stock in 2½ per Cent. Consols, bequeathed by the Earl of Bridgewater, viz.:			
On the 5th April 1912 -	£. 85 7 4		
,, 5th July 1912 -	- 85 7 4		
,, 5th October 1912	- 85 7 4		
,, 6th January 1913	- 85 7 4		
		341 9 4	
- RENT OF A REAL ESTATE, Whitchurch, bequeathed by the Earl of Bridgewater (less repairs, &c.) - - - - - - -		23 13 10	
	£.	373 12 3	13,659 3 2

II.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

		Cash.	Stock, 2½ °/₀ Consols.
		£ s. d.	£. s. d.
To BALANCES on the 1st April 1912 - - -		54 14 -	2,879 10 7
- DIVIDENDS received on 2,879*l.* 10*s.* 7*d.* Stock in 2½ per Cent. Consols, bequeathed by Lord Farnborough, viz.:			
On the 5th April 1912 -	£. 17 19 11		
,, 5th July 1912 -	- 17 19 11		
,, 5th October 1912	- 17 19 11		
,, 6th January 1913	- 17 19 11		
		71 19 8	
	£.	126 13 8	2,879 10 7

III.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

		Cash.	Stock, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCES on the 1st April 1912 - - - -		13 17 1	5,744 - 8
- DIVIDENDS received on 5,744*l.* - 8*d.* Stock in 2½ per Cent. Consols, bequeathed by Dr. George Swiney for Lectures on Geology, viz.:			
On the 5th April 1912 -	- £. 35 18 -		
,, 5th July 1912 -	- 35 18 -		
,, 5th October 1912	- 35 18 -		
,, 6th January 1913	- 35 18 -		
		143 12 -	
	£.	157 9 1	5,744 - 8

BRIDGEWATER FUND, from the 1st April 1912 to the 31st March 1913.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By One Year's Salary of the Egerton Librarian -	175 – –	
– Amount expended on purchase of Manuscripts -	67 4 –	
– Balances on the 31st March 1913, carried to Account for 1913–1914 - -	131 8 3	13,659 3 2
£.	373 12 3	13,659 3 2

FARNBOROUGH FUND, from the 1st April 1912 to the 31st March 1913.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By Amount expended in purchase of Manuscripts -	126 – –	
– Balances on the 31st March 1913, carried to Account for 1913–1914 - - -	– 13 8	2,879 10 7
£.	126 13 8	2,879 10 7

SWINEY FUND, from the 1st April 1912 to the 31st March 1913.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By Amount paid to Dr. T. J. Jehu, for Lectures on Geology in 1912 - - - - - -	140 – –	
– Balances on the 31st March 1913, carried to Account for 1913–1914 - - -	17 9 1	5,744 – 8
£.	157 9 1	5,744 – 8

IV.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of

		Cash.	Stock, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCE on the 1st April 1912		—	565 3 9
– DIVIDENDS received on 565*l.* 3*s.* 9*d.* Stock in 2½ per Cent. Consols, bequeathed by Dr. Birch in 1766, for the three Under Librarians of the British Museum, viz.:			
On the 5th April 1912	£. 3 10 8		
,, 5th July 1912	3 10 8		
,, 5th October 1912	3 10 8		
,, 6th January 1913	3 10 8		
		14 2 8	
	£.	14 2 8	565 3 9

V.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest and Extension of the Library and Reading Room of the British

	Cash.	Local Loans Stock.
	£. s. d.	£. s. d
To AMOUNT of Local Loans Stock on 1st April 1912	—	39,909 7 10
– DIVIDENDS received during the year	944 –	
– AMOUNT of Local Loans Stock purchased with the Dividends	—	1,082 13 4
– NET PROCEEDS of sale of 26,544*l.* 19*s.* 7*d.* Local Loans Stock as *per contra*	23,000 – –	
£	23,944 – 2	40,992 1 2

VI.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest 1st April 1912 to

	Cash.	Metropolitan 3½ °/₀ Stock.
	£. s. d.	£. s. d.
To AMOUNT of Metropolitan 3½ per cent. Stock on 1st April 1912	—	8,973 4 9
– DIVIDENDS received during the year	318 3 9	
– AMOUNT of Metropolitan 3½ per cent. Stock purchased with the Dividends	—	318 11 8
£.	318 3 9	9,291 16 5

VII.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the 1st April 1912 to

	Cash.
	£. s. d.
To BALANCE on the 1st April, 1912	500 – –
– DONATION (further anonymous contribution)	2,200 – –
	2,700 – –

the **BIRCH FUND**, from the 1st April 1912 to the 31st March 1913

	Cash.	Stock, 2½ % Consols.
	£. s. d.	£. s. d.
By Legacy paid to the three Under Librarians of the British Museum, whose offices existed in 1766, viz., the Keepers of the Departments of Printed Books, Manuscripts, and Natural History - - - - - - - - - -	14 2 8	
- Balance on the 31st March 1913, carried to Account for 1913-1914 - - -	—	565 3 9
£.	14 2 8	565 3 9

of the late **MR. VINCENT STUCKEY LEAN** (for the Improvement Museum) from the 1st April 1912 to the 31st March 1913.

	Cash.	Local Loans Stock.
	£. s. d.	£. s. d.
By Amount expended in the purchase of 1,080*l.* 13*s.* 4*d.* Local Loans Stock, Commission, &c. - - - - - -	944 - 2	
- Amount transferred to H.M. Office of Works for expenditure on British Museum Extension -	23,000 - -	
- Stock sold as *per contra* - - - - -	—	26,544 19 7
- Balance of Stock on the 31st March 1913, carried to Account for 1913-1914 - - -	—	14,447 1 7
£.	23,944 - 2	40,992 1 2

of the late **MR. CHARLES DRURY EDWARD FORTNUM** from the the 31st March 1913.

	Cash	Metropolitan 3½ % Stock.
	£. s. d.	£ s. d.
By Amount expended in the purchase of 318*l.* 11*s.* 8*d.* Metropolitan 3½ per cent. Stock, Commission, &c. - - - - -	318 3 9	
- Balance of Stock on the 31st March 1913, carried to Account for 1913-1914 - - -	—	9,291 16 5
£.	318 3 9	9,291 16 5

CARCHEMISH EXCAVATIONS FUND from the the 31st March 1913.

	Cash.
	£. s. d.
By Amount expended on Excavations - - - - - -	2,189 19 -
- Balance on the 31st March 1913, carried to Account for 1913-1914	510 1 -
	2,700 - -

Frederic G. Kenyon,
Director and Principal Librarian.

VIII.—NUMBER of Persons Admitted to Visit the British Museum and the British Museum (Natural History).

A.—Persons Admitted to View the General Collections in the British Museum in each Year from 1907 to 1912, both Years inclusive.

	1907.		1908.		1909.		1910.		1911.		1912.	
	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week day.	Sunday.	Week-day.	Sunday.
January	48,297	3,143	44,498	1,959	49,213	4,154	48,368	4,122	55,442	2,663	54,607	3,045
February	43,522	3,775	43,488	3,788	36,296	3,400	46,081	3,479	44,315	3,424	49,586	3,128
March	45,298	6,807	42,739	7,014	43,517	5,855	59,783	5,325	58,111	6,633	*13,341	*2,292
April	54,485	6,020	70,302	7,460	58,175	4,779	59,623	6,095	64,215	7,993	57,077	4,542
May	50,036	5,009	46,840	6,881	43,049	6,196	48,271	6,309	47,400	5,273	54,467	4,202
June	43.238	7,071	50,615	5,256	54,703	6,908	55,362	5,856	52,277	6,847	51,891	7,030
July	48.799	6,152	66,035	7,992	66,484	6,637	68,956	11,481	61,311	6,156	62,503	5,487
August	72,023	5,184	90,251	12,313	76,856	7,389	81,401	6,813	70,068	5,142	101,300	7,343
September	43,485	7,050	75,929	7,658	66,097	6,347	52,249	7,466	54,726	4,793	79,456	8,039
October	48,878	5,669	55,854	6,013	53,989	7,028	52,543	6,559	55,374	7,113	63,496	4,812
November	44,577	3,890	41,041	5,615	47,962	3,389	48,228	3,593	52,588	3,982	54,593	3,898
December	40,141	3,761	41,497	2,375	47,802	2,611	49,239	2,635	43,959	3,766	54,777	3,960
Total Number of Persons admitted to view the General Collections.	582,779	63,521	669,089	74,324	644,143	64,693	670,104	69,733	659,786	63,785	697,094	57,778
	646,300		743,413		708,836		739,837		723,571		754,872	

* The Museum was closed from March 5 to 24 inclusive.

Number of Visits of Students to particular Departments.

—	1907.	1908.	1909.	1910.	1911.	1912.
To the Reading Room - - - - - -	137,682	231,544	217,975	219,274	223,404	236,643
,, Newspaper Room - - - - -	20,098	19,019	21,122	19,200	19,212	18,450
,, Map Room - - - - - - -	281	296	371	443	584	502
,, Department of Manuscripts - - -	11,854	12,370	11,683	11,256	11,731	12,142
,, Department of Oriental Printed Books and Manuscripts.	3,286	2,270	2,678	2,218	2,617	2,446
,, Print Room - - - - - - -	8,590	8,990	9,343	9,343	9,649	9,833
,, Egyptian and Assyrian Department - -	2,550	3,100	3,260	3,020	3,110	3,451
,, Greek and Roman Department - -	428	457	563	418	609	755
,, Galleries of Sculpture - - - -	1,206	1,614	1,077	1,843	2,301	1,879
,, British and Mediæval Department - -	3,254	3,267	3,591	3,665	3,260	3,646
,, Coin and Medal Room - - - -	4,191	4,293	4,377	4,228	4,050	4,044
Total - - -	193,420	287,220	276,040	274,908	280,527	293,791

The British Museum, Bloomsbury (including the Departments of Printed Books and Maps, Manuscripts, Oriental Printed Books and Manuscripts, Prints and Drawings, Egyptian and Assyrian Antiquities, Greek and Roman Antiquities, British and Mediæval Antiquities and Ethnography, and Coins and Medals) is open to the public free daily (except on Good Friday and Christmas Day and days of Public Fast or Thanksgiving) as follows:—

On WEEKDAYS from 10 a.m. to 6 p.m.

After 4 p.m. in January, February, November, December, and after 5 p.m. in March, September, October, only certain of the galleries remain open, viz.:—

On MONDAYS, WEDNESDAYS, and FRIDAYS.	Exhibitions of Manuscripts, Printed Books, Prints and Drawings, Porcelain, Glass and Majolica; Prehistoric, British, Anglo-Saxon, Mediæval and Ethnographical Collections.
ON TUESDAYS, THURSDAYS, and SATURDAYS.	Egyptian, Assyrian, Greek and Roman Galleries; the Gold Ornament Room, the American Room and the Waddesdon Room.

On SUNDAY AFTERNOONS:—

From 2 to 4	p.m. in January, February, November, December.
„ 2 „ 5	„ „ October.
„ 2 „ 5.30	„ „ March, September.
„ 2 „ 6	„ „ April, May, June, July, August.

Persons applying for the purposes of research and reference are admitted to the Reading Room under certain regulations every weekday, except the days specified below, from 9 a.m. until 7 p.m. The Newspaper Room is open, under similar regulations, from 10 a.m. until 5 p.m.

The Reading Room, Newspaper Room, and Students' Rooms in the Library and Department of Manuscripts are closed on Sundays, Good Friday, Christmas Day, and the first four weekdays in March and September.

Other Students' Rooms are closed on Sundays, Good Friday, and Christmas Day, and occasionally for cleaning.

Students are admitted generally to the several Departments on weekdays, from 10 till 4 or 5 o'clock; and to the Sculpture Galleries from 9 o'clock till the hour of closing.

British Museum,
1 April 1913.

Frederic G. Kenyon,
Director and Principal Librarian.

B.—Persons admitted to view the Collections in the British Museum (Natural History), Cromwell Road, in each Year from 1907 to 1912, inclusive.

	1907.		1908.		1909.		1910.		1911.		1912.	
	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.
January	30,598	2,979	22,626	2,459	33,756	4,269	34,759	3,561	34,294	2,836	31,122	3,115
February	26,846	4,250	24,253	5,117	25,852	4,163	29,426	4,063	26,541	4,537	26,931	3,904
March	33,865	7,539	29,361	6,990	29,153	5,053	49,982	6,044	32,140	5,514	* 22,719	*4,558
April	58,220	7,394	61,990	7,157	56,355	5,223	37,069	5,567	40,147	5,956	48,102	3,665
May	47,095	6,147	33,866	6,435	36,630	5,969	31,634	5,371	28,669	4,880	34,473	3,641
June	37,105	7,144	46,159	4,941	42,446	8,117	35,308	4,133	35,803	6,068	30,504	5,310
July	32,093	5,741	42,531	5,788	46,808	5,275	42,507	7,292	31,080	4,514	31,967	3,570
August	49,158	5,954	61,603	9,277	58,812	6,244	52,668	5,629	39,177	3,528	59,729	6,192
September	31,014	6,166	45,399	6,193	40,239	5,642	36,376	5,225	26,981	4,594	34,451	6,170
October	33,618	5,722	32,124	5,235	39,650	6,061	33,737	5,558	30,652	5,871	31,244	4,158
November	25,714	3,736	24,741	4,107	32,856	2,784	36,549	2,855	28,150	3,458	25,453	3,236
December	25,744	3,595	26,404	2,287	31,094	2,665	37,789	2,460	27,957	2,937	28,153	3,246
Total Number of Persons admitted to view the Natural History Collections (including students)	431,070	66,367	451,057	65,986	473,651	61,465	457,804	57,758	380,991	54,693	404,848	50,765
	497,437		517,043		535,116		515,562		435,684		455,613	

Number of Visits to Particular Departments for the purpose of Study.

	1907.	1908.	1909	1910.	1911.	1912.
Zoology (including Art students).	11,043	10,220	11,461	12,443	12,175	12,564
Geology	5,544	5,803	5,057	4,996	6,038	5,974
Mineralogy	855	987	838	850	682	1,415†
Botany	2,245	2,315	2,712	3,009	3,084	3,962
Total	19,687	19,325	20,068	21,298	21,979	23,915

* The Museum was closed from March 5 to 10 inclusive.

† Study series directly accessible to the public, and so labelled as to render reference to the staff almost unnecessary, have been arranged in this Department.

The Exhibition Galleries of the British Museum (Natural History), Cromwell Road, South Kensington, including the Departments of Zoology, Entomology, Geology and Palæontology, Mineralogy, and Botany, are open to the public, free, daily, except Good Friday and Christmas Day, and days of Public Fast or Thanksgiving.

The hours of Admission are as under:—

On WEEKDAYS, throughout the year from 10 a.m., in

January	to	4	p.m.
February 1st to 14th	,,	4.30	,,
February 15th to end	,,	5	,,
March	,,	5.30	,,
April to August	,,	6	,,
September	,,	5.30	,,
October	,,	5	,,
November and December	,,	4	,,

also, on MONDAYS and SATURDAYS only, from the beginning of May to the middle of July, to 8 p.m., and from the middle of July to the end of August, to 7 p.m.

On SUNDAYS, in

January	from 2	to	4	p.m.
February 1st to 14th	,, 2	,,	4.30	,,
February 15th to end	,, 2	,,	5	,,
March	,, 2	,,	5.30	,,
April	,, 2	,,	6	,,
May to August	,, 2.30	,,	7	,,
September	,, 2	,,	5.30	,,
October	,, 2	,,	5	,,
November and December	,, 2	,,	4	,,

Persons are admitted to study in these Departments every weekday from 10 till 4 o'clock.

British Museum (Natural History),
22 February, 1913.

L. Fletcher,
Director of the Natural History Departments.

IX.—General Progress at the Museum, Bloomsbury.

The total number of visitors to the Museum in 1912 was 754,872, being more than 31,000 in excess of the figures for 1911, and 11,000 more than the highest total since the year 1905. This is the more remarkable since the public galleries were closed from March 5 to 24 inclusive, and partially from March 25 to April 13. It may be estimated that about 60,000 visitors were lost during that period; but the deficit was more than made good by the very high totals recorded in the summer months. In August the number of weekday visitors exceeded 100,000 for the first time on record, and the total for August and September was greater by 61,409 than that for the corresponding months in the very hot summer of 1911. The total for weekdays was 697,094 (an increase of 37,308), and for Sundays 57,778 (a decrease of 6,007).

The number of visits by readers to the Reading Room was 236,643, which is the highest total hitherto recorded, and 13,000 above the figures for 1911. The daily average was 778, and the total number of volumes supplied was 1,561,138, giving an average of nearly seven volumes daily for each reader, exclusive of the volumes on the shelves to which readers have free access. In the Newspaper Room the number of readers was 18,450, about 760 less than in the previous year. On the other hand, the number of volumes of newspapers consulted was greater, giving a daily average of 229, or more than three for each reader. The number of volumes of country newspapers brought up from Hendon was 2,642, nearly a hundred more than in the previous year.

The visits of students to other Departments of the Museum also reached a higher total than any previously recorded, namely, 38,698, as compared with 37,911 in 1911. There was a decrease in the number of students working in the Sculpture Galleries, but increases in the use of the Students' Rooms in nearly all the Departments.

The handing over of the Extension building to the Trustees is still delayed. Contracts have been made for the fittings of the new North Library and the Department of Prints and Drawings, and work on the preparation of these is in full progress. The occupation of the other parts of the building will depend on the funds available for furniture and fittings.

The reconstruction of the last section of the roof over the northern galleries with fire-resisting materials was taken in hand towards the close of 1912. Progress was delayed by the failure of the contractors to deliver the materials in time; but the work will have been completed shortly after the end of the financial year. The redecoration of the Mausoleum Room has also been completed.

In June 1912, on the occasion of the retirement of Sir Sidney Colvin from the Keepership of the Department of Prints and Drawings, an exhibition of the principal drawings by European artists acquired during the last eight years of his Keepership was arranged, in place of the exhibition of Chinese and Japanese drawings previously on view. It is intended that the present exhibition shall remain open until the Department moves into its new quarters in the Extension Building.

In view of the increasing size and importance of the collections of Oriental art, a new Sub-Department of Oriental Prints and Drawings has been created.

The work of the official Guide has been continued throughout the year. His tours are well attended, and great satisfaction with the instruction given by him is frequently expressed.

In another direction an attempt has been made to widen the influence and increase the interest of the Museum. A counter has been established in the Entrance Hall for the sale of official publications and of picture postcards and other photographs of objects in the collections. About 50,000 postcards alone were sold in the first five months, and there is ample evidence that this opportunity of obtaining reproductions of works of art and objects of antiquity is much appreciated by visitors.

The excavations at Jerablus were continued in the spring and autumn of 1912, the second season being made possible by the generosity of an anonymous benefactor. The results in the way of sculptures, inscriptions, and pottery were highly encouraging; but much still remains to be done.

The number of separate objects incorporated in the collections of the several Departments during the year 1912 is as follows :—

Department of Printed Books :	
Books and Pamphlets	30,916
Serials and Parts of Volumes	69,095
Maps and Atlases	3,736
Music	12,477
Newspapers (single numbers)	235,926
Miscellaneous	6,981
Manuscripts and Seals	1,453
Oriental Printed Books and Manuscripts	2,144
Prints and Drawings	5,469
Egyptian and Assyrian Antiquities	1,806
Greek and Roman Antiquities	1,014
British and Mediæval Antiquities and Ethnography	1,012
Coins and Medals	2,260
Total	374,289

Reports on the accessions to the several Departments are appended, in which all the noteworthy objects acquired during the year are mentioned. No single acquisition has been made of equal importance to the Huth Bequest of the previous year, or the royal collection of music deposited by His Majesty the King. But all Departments show steady progress in the addition to the national collections of objects of real importance and interest.

The main resources of the Department of Printed Books are necessarily devoted to the acquisition of new books in all languages and in all branches of learning. The continual increase in the output of printed literature throughout the world makes it increasingly difficult to maintain the ideal which the Department sets before itself, of possessing all the books which any serious student is likely to want. A special form of this difficulty arises from the constant appearance of new periodicals purporting to possess scientific value. Apart from these current needs, the principal efforts of the Department are directed towards the development of the collection of Incunabula, the catalogue of which is now in progress. Several acquisitions of this class, and of English works printed before 1640, are included in the lists given below.

In the Department of Manuscripts, the principal accession has been a group of 36 letters of Erasmus. The Dering roll of arms is a heraldic document of considerable importance; and the collection of historical letters gains by the purchase of 18 more volumes of the Liverpool Papers.

The acquisitions of the Department of Oriental Printed Books and Manuscripts for the most part interest only specialists; but the illuminated MS. of the Masnavī i Manavī of Jalāl ul-Dīn Rūmī, written in A.D. 1295, and presented by Mr. H. Van den Bergh, is also of great artistic interest. A curious acquisition is that of a collection of pieces of bone, inscribed with extremely archaic characters, and used for purposes of divination.

Two very important sales of artistic collections took place in the course of the year, and the Department of Prints and Drawings was enabled by the generosity of some of its many friends to profit by the opportunity. At the Taylor sale several exceedingly rare prints belonging to Turner's "Liber Studiorum" and the "sequels" to it were secured with the help of Mr. Henry Oppenheimer and Mr. W. G. Rawlinson; while a selection from the wealth of Mr. J. P. Heseltine's collection of drawings was obtained through the liberality of Mr. Heseltine himself, Mr. Otto Beit, Mr. Henry Van den Bergh, and Mr. Leopold Hirsch. Other acquisitions include a hitherto unknown first state of Dürer's Melancolia; a rare set of the Four Evangelists of the Master E. S.; and Nicholas Hilliard's design for the Irish Great Seal of Queen Elizabeth. Recent art is represented by large collections of the work of

W. H. Hooper, R. Lane, E. Whymper, and C. W. Sherborn, and a smaller group of lithographs and drawings by Charles Conder; while the Museum is indebted to the liberality of many artists and publishers for accessions to its collections of contemporary art. These and other benefactions are recorded in the Keeper's report printed below.

In the Department of Egyptian and Assyrian Antiquities a large number of miscellaneous objects have been acquired, notably a valuable tomb-group from a pre-dynastic cemetery in Upper Egypt; a collection of Meroïtic antiquities from the island of Faras; three cylinders of Nebuchadnezzar and Nabonidus; 214 tablets from Lagash, of the third millennium B.C.; a collection of scarabs and pottery from Gezer in Palestine; and a number of cylinder seals of various periods.

The acquisitions of the Department of Greek and Roman Antiquities have mostly been in the category of small objects, including several fine gems, a plasma head of the emperor Claudius, an Etruscan statuette of Athena in bronze, with other bronze objects, and several vases of rare types. In addition, a large number of vases, statuettes, and fragments were obtained from the Greek Government, in exchange for a cast of the Elgin Caryatid from the Erechtheum, to replace one previously presented by Lord Guilford, which had suffered damage. Additions were also made to the collection of casts.

The accessions to the Department of British and Mediæval Antiquities and Ethnography range, as usual, over a wide field. Among them may be mentioned a bronze-gilt case of mathetical instruments, made by Bartholemew Newsum, probably for Queen Elizabeth; a series of pottery vessels from early Chinese graves; a series of Persian glazed pottery from the 10th to the 15th centuries; a steel figure of a peacock, said to be associated with the Yezidi worship; a fine silver bowl of Sassanian work; a large ethnographical series from Abyssinia, with the gold ring and silver cup of King Theodore; and some rare and important collections of early pottery from Peru and Argentina. The majority of these accessions were the result of gifts from many liberal friends of the Museum, whose names are recorded below.

The Department of Coins and Medals had perhaps the most remarkable accession of the year, in the two finds of Roman gold coins from Corbridge, on the Roman Wall. These finds, consisting respectively of 48 coins of the fourth century and 160 of the first and second, were claimed by the Treasury as treasure trove, and were transferred intact to the Museum, where they wil be kept together as the largest hoards of gold coins hitherto discovered in Great Britain. Other important accessions included the Bleazby Collection of Mohammedan coins of Afghanistan, and a fine medal in lead by Pisanello.

Gifts of Museum publications, including reproductions of prints by Old Masters, and sets of electrotypes of British Historical Medals, have been made to many Free Libraries,

Museums, and Art Schools throughout the United Kingdom, and to certain libraries and institutions in the overseas Dominions and in foreign countries; and similar gifts have been received in return.

The following are the publications issued by the Departments at Bloomsbury during the year:—

The Greenfield Papyrus: the funerary papyrus of Princess Nesitanebtashru, Daughter of Painetchem II. and Nesi-Khensu, and Priestess of Amen-Rā at Thebes, about B.C. 970. Collotype facsimile, with introduction and description by E. A. Wallis Budge. 4to., 2*l.* 10*s.*

Hieroglyphic Texts from Egyptian Stelæ, &c., in the British Museum. Parts II. and III. 50 plates each. Folio, 7*s.* 6*d.* each part.

Babylonian Boundary-Stones and Memorial-Tablets in the British Museum. Edited by L. W. King. With a portfolio of 133 plates. Folio, 2*l.*

Cuneiform Texts from Babylonian Tablets, &c., in the British Museum. Parts XXXII. and XXXIII. 50 plates each. Folio, 7*s.* 6*d.* each part.

Catalogue of Vases, Vol. I. Part II. Cypriote, Italian, and Etruscan Pottery. By H. B. Walters. With plates. 4to., 1*l.*

The Franks Bequest: Catalogue of the Finger Rings, Early Christian, Byzantine, Teutonic, Mediæval and Later, bequeathed to the British Museum by Sir Augustus Wollaston Franks, K.C.B.; in which are included the other rings of the same period in the Museum. By O. M. Dalton. 4to., 1*l.* 5*s.*

Catalogue of Books printed in the XVth Century now in the British Museum. Part II. Germany: Eltvil—Trier. With 30 plates of facsimiles. 4to., 1*l.* 15*s.*

Catalogue of Printed Music published between 1487 and 1800 now in the British Museum. By W. Barclay Squire. 2 vols. 8vo., 3*l.* 3*s.*

Catalogue of Additions to the MSS. in the British Museum in the years 1906–1910. 8vo., 1*l.* 8*s.*

Index to the Charters and Rolls in the Department of Manuscripts in the British Museum. Vol. II. (Index Locorum, 1882–1900, and Religious Houses, &c.). 8vo., 1*l.* 15*s.*

Catalogue of the Fifty Manuscripts and Printed Books bequeathed to the British Museum by Alfred H. Huth. With frontispiece, 18 collotype plates, and illustrations in the text. 4to., 1*l.* 2*s.* 6*d.*

Queen Mary's Psalter: Collotype facsimile of Royal MS. 2 B. VII. in the British Museum. With introduction by Sir George Warner. 4to., 2*l.* 5*s.*

Descriptive List of Arabic Manuscripts in the British Museum acquired since 1894. Compiled by A. G. Ellis and Edward Edwards. 8vo., 4*s.*

Coptic Biblical Texts in the Dialect of Upper Egypt. Edited by E. A. Wallis Budge. With 10 plates. 8vo., 15*s.*

Catalogue of the Hebrew and Samaritan Manuscripts in the British Museum. Part III. Sections II.–VII. (Ethics; Philosophy; Poetry; Philology; Mathematics and Astronomy; Medicine). By G. Margoliouth. 4to., 1*l.* 15*s.*

Catalogue of the Telugu Books in the Library of the British Museum. Compiled by L. D. Barnett. 4to., 1*l.* 12*s.* 6*d.*

Catalogue of Engraved British Portraits in the British Museum. By F. M. O'Donoghue. Vol. III., L—R. 8vo., 1*l.* 5*s.*

Reproductions of Prints. Third Series. Part VI. (Specimens of Etching by Rembrandt, Livens, and Bol, 1630–1680.) 25 plates. 2*l.*

Guide to the Exhibition Galleries of the British Museum, Bloomsbury. 11th edition. With plans. 8vo., 2*d.*

Guide to the Department of Greek and Roman Antiquities in the British Museum. With illustrations, maps and plans. 4th edition. 8vo., cloth, 1*s.* 6*d.*; paper, 1*s.*

Short Guide to the American Antiquities in the British Museum. With 12 plates and 48 illustrations. 8vo., 6*d.*

Guide to the use of the Reading Room. 8vo., 6*d.*

Guide to the Exhibited Manuscripts:—

Part I. Autographs and Documents, illustrative chiefly of English History and Literature, exhibited in the Manuscript Saloon. With 20 plates. 8vo., 6*d.*

Part II. Manuscripts (Palæographical and Biblical Series and Chronicles), Charters, and Seals, exhibited in the Manuscript Saloon. With 20 plates. 8vo., 6*d.*

Part III. Illuminated Manuscripts and Bindings of Manuscripts, exhibited in the Grenville Library. With 20 plates. 8vo., 4*d.*

Guide to an Exhibition of Drawings and Sketches by Old Masters and by Artists of the English School, principally acquired between 1904 and 1912. 8vo., 4*d.*

British Museum,
1 April, 1913.

Frederic G. Kenyon,
Director and Principal Librarian.

X.—PROGRESS made in the ARRANGEMENT AND DESCRIPTION OF THE COLLECTIONS, AND ACCOUNT OF OBJECTS ADDED TO THEM in the Year 1912 (Bloomsbury).

DEPARTMENT OF PRINTED BOOKS.

I. *Arrangement.*—The works added to the collection during the past year have, as far as possible, been placed on the shelves of the Library, according to the system of classification adopted in the Museum.

The press-marks, indicating their respective localities, have been marked on the inside and affixed to the back of each volume.

The total number of these press-marks amounts to 81,179; in addition to which 161,503 press-marks have been altered, on books and in the catalogues, in consequence of changes and re-arrangements carried out in the Library; 39,005 labels have been affixed to books and volumes of newspapers, and 103,344 obliterated labels have been renewed.

The number of stamps impressed upon articles received is 563,410.

4,682 presses of books and newspapers have been dusted in the course of the year.

II. *Catalogues.—Cataloguing.*—58,741 titles have been written for the General Catalogue and for the Catalogues of Maps and Music.

Printing.—36,196 titles and index-slips for the General Catalogue, 3,356 for the Map Catalogue, and 4,194 for the Music Catalogue have been prepared for printing during the year; and 33,440 titles and index-slips for the General Catalogue, 1,676 for the Map Catalogue, and 11,732 for the Music Catalogue, have been printed.

Reprinting.— 426 columns, including the headings Amadís de Gaula (28 columns), Edmund Burke (26 columns), Butler (100 columns), Aikin (16 columns), and Wood (99 columns), have been revised and reprinted.

Incorporation.—General Catalogue.—36,869 title-slips and index-slips have been incorporated into each of the three copies of this Catalogue. This incorporation has rendered it necessary, in order to maintain as far as possible the alphabetical arrangement, to remove and re-insert 49,720 title-slips and index-slips in each copy and to add to each copy 734 new leaves.

The system of fortnightly incorporation of accessions to the Library has been carried out with perfect regularity during the year.

Map Catalogue.—2,784 titles have been written for this Catalogue, and 2,655 title-slips have been incorporated into each of three copies of it. This incorporation has rendered

it necessary to remove and re-insert 6,594 title-slips in each copy and to add to each copy 165 new leaves.

Music Catalogue.—16,612 titles have been written for the Music Catalogue, and 13,474 title-slips have been incorporated into each of the two copies of it. This incorporation has rendered it necessary to remove and re-insert 26,517 title-slips in each copy and to add to each copy 1,222 new leaves.

Shelf Catalogue.—For this Catalogue, in which the title-slips, mounted on cards, are arranged in order of press-marks, 30,371 have been so mounted and 29,190 have been incorporated in their proper order.

Catalogue of Books printed in the XVth Century. — Part II. of this Catalogue, containing descriptions of the books printed at Augsburg, Nuremberg, and twenty other towns in Germany was published by the Trustees in March, 1912.

Catalogue of the Fifty Manuscripts and Printed Books bequeathed to the British Museum by Alfred H. Huth.—This Catalogue was issued in March, 1912.

Catalogue of Printed Music published between 1487 *and* 1800.—This Catalogue was issued in July, 1912.

Guide to the use of the Reading Room.—This Guide was issued in September, 1912.

III. *Binding.*—The number of volumes and sets of pamphlets sent to be bound in the course of the year was 13,704, including 3,496 volumes of newspapers. In consequence of the frequent adoption of the plan of binding two or more volumes in one, the number of volumes returned was 10,759. In addition to this, 1,850 volumes have been repaired in the binders' shops.

Besides this, the following binding work has been done in the Library itself:—3,183 volumes have been repaired and 5,540 volumes of reports, parts of periodicals, &c., have been bound in a light style of binding.

The following maps, charts, &c., have also been bound or mounted during the year:—Six atlases and 243 volumes of the 6-inch and 25-inch Ordnance Survey have been bound, and two Admiralty Charts have been mounted on linen; in addition, 300 general maps have been mounted on linen in 1,681 sheets, and 112 maps have been mounted on cards in 229 sheets.

45,251 numbers of Colonial Newspapers have been folded into 948 parcels, and 903 parcels have been tied up and labelled.

Ten volumes of the Blue Copy, 11 volumes of the Red Copy, and 13 volumes of the Green Copy of the General Catalogue, have been broken up and re-bound in 53 new volumes. 412 columns have been re-laid, owing to the accumulation of titles under certain headings, as well as 362 columns of reprinted headings, in each of the three interleaved copies of the General Catalogue. Four volumes of the Music Catalogue have been re-bound in seven new volumes.

IV. *Reading Room Service.*—The number of volumes replaced in the General Library after use in the Reading Room was 807,562; in the King's Library, 25,355; in the Grenville Library, 2,397; in the Map Room, 6,674; in the presses in which books are kept from day to day for the use of readers, 715,914; and in the Oriental Department, 3,236; making a total amount of 1,561,138 volumes supplied to readers during the year, exclusive of those to which the readers have personal access on the shelves of the Reading Room.

The number of readers during the year was 236,643, giving an average of 778·43 daily, the room having been open 304 days, with an average of nearly seven volumes daily for each reader.

Newspaper Room.—The number of readers during the year was 18,450, giving a daily average of over 60, the room having been open on 304 days. The number of volumes replaced after use was 69,340, giving a daily average of 229, and of over three volumes for each reader, not reckoning volumes, chiefly Parliamentary Papers, taken from the shelves of the Newspaper Room by the readers themselves. In addition 2,642 country newspapers were brought up to the Library from the Repository at Hendon for the use of readers.

Map Room.—502 visitors were admitted to the Map Room for the purpose of special geographical research.

Photography.—There were 447 applications for leave to photograph from books in the Library, and 1,608 volumes were supplied to the applicants for this purpose.

V. *Accessions.—General Library.*—30,916 complete volumes and pamphlets have been added to the General Library in the course of the year. Of these, 7,052 were presented; 16,517 were received by Copyright; 460 by Colonial Copyright; 1,007 by International Exchange; and 5,880 acquired by purchase.

69,095 parts or volumes of magazines and other serial publications and of works in progress have been added to the General Library. Of these, 3,981 were presented; 43,864 received by Copyright; 511 by Colonial Copyright; 1,356 by International Exchange; and 19,383 acquired by purchase.

Maps.—50 atlases, 157 parts of atlases, and 3,529 maps in 7,436 sheets have been added to the collection during the year. Of these, 11 atlases, 37 parts of atlases, and 536 maps were presented; 12 atlases and 2,836 maps received by Copyright; 16 atlases and 47 maps by Colonial Copyright; and 11 atlases, 120 parts of atlases, and 110 maps acquired by purchase.

Music.—12,477 musical publications have been added to the collection during the year. Of these, 9,926 books and pieces and 1,651 parts were received by Copyright; 530 pieces by Colonial Copyright; and 47 books and 323 parts acquired by purchase.

Newspapers.—The number of newspapers published in the United Kingdom, received under the provisions of the Copyright Act during the year, was 3,394, comprising 235,926 single numbers. Of these newspapers, 1,228 were published in London and its suburbs; 1,652 in other parts of England and Wales and in the Channel Islands; 284 in Scotland; and 230 in Ireland. Eleven sets, comprising 828 single numbers, were received by Colonial Copyright; 265 sets, comprising 45,641 single numbers of colonial and foreign newspapers, have been presented; and 79 sets, comprising 19 volumes and 14,711 single numbers of current colonial and foreign newspapers, have been purchased.

Miscellaneous.—6,981 articles not included in the foregoing paragraphs have been received in the Department. These consist of Parliamentary Papers, single sheets, and other miscellaneous items.

The total number of articles enumerated above as having been received in the Department during the year, exclusive of newspapers, is 123,205.

Acquisitions of Special Interest.—The following is a list of the most important and interesting books acquired by purchase during the year. It includes two English incunabula and a remarkable collection of English news-sheets printed in the years 1620, 1621.

Cicero: Rhetorica, translated into Italian in the 13th century by Galeotto Guidotti. Printed in Northern Italy before 1480. The printer has not yet been identified.

A contemporary report in French of the proceedings of the meeting of the Etats Généraux at Tours, January–March, 1484. Printed by Antoine Caillaut, Paris, c. 1484.

An English translation of a Bull of Pope Innocent VIII., dated 26 April, 1486, on the marriage of Henry VII. and Elizabeth of York, and on Henry's right and that of his children to the throne of England. Printed by William de Machlinia, 1486.

The Book of Good Manners. Printed by Richard Pynson, London, 1494. The only copy known.

Dino del Garbo: Expositio super tertia &c. parte fen Canonis Auicēne. Printed by Bonetus Locatellus, Venice, 1495.

Albertus de Saxonia: Quaestiones super libros Posteriorum. Printed by Bonetus Locatellus, Venice, 1497.

Agostino Dati: Elegantiae minores. Printed by Johann Winterberg, Vienna, 1499.

Cardinal John Fisher: Treatise concernynge the fruytfull sayenges of David the Kinge in the seuen penytēcyal psalmes. Richard Pynson, London, 1510.

Accidentia ex Stanbrigiana editione. Richard Pynson, London, c. 1520.

Catonis Moralia cum scholiis Des. Erasmi. Wynkyn de Worde, London, 1532. The only copy known.

A deuout Treatyse called the Tree and VII Frutes of the Holy Ghost. Robert Copeland, London, 1534.

A very excellēt & swete exposition upon the xxii Psalme. Translated oute of Hye Almayne into Englyshe by Myles Couerdale. James Nicolson, Southwarke, 1538.

Desiderius Erasmus: A Sermon of the chylde Jesus. Robert Redman, London, before 1540.

Jean Calvin: An Epistle both of Godly consolacion and also of advertisemente to Edward Duke of Somerset . . . translated by the same Duke in the tyme of his impriesonmente. Edward Whitchurche, London, 1550.

John Colet: Absolutissimus de octo orationis partium constructione libellus. Wynkyn de Worde, London, 1553. The only copy known.

Psalmes or prayers taken out of holy Scripture. William Copland for John Waley and William Seres, London, 1559.

Philippson, Joannes, Sleidanus: A briefe Chronicle of the foure principall Empyres, Babilon, Persia, Grecia and Rome. Englished by Stephen Wythers. Rouland Hall, London, 1563.

Cassius of Parma his Orpheus. Translated by Roger Rawlyns, London, 1587. Only one other copy known.

The Contre-Guyse: wherein is deciphered the pretended title of the Guyses, etc. John Woolfe, London, 1589.

Jean Calvin: The Catechisme or maner to teache children the Christian Religion. Imprinted by the Widdow Orwin, London, 1594.

A true Historie of a Mayden of Confolens in the Province of Poictiers that for three yeeres hath lived without meate or drinke. [From the French of F. Citois.] James Roberts, London, 1603.

Gilbert Dugdale: The Time Triumphant, declaring in briefe the arrival of King James into England, his coronation at Westminster, etc. (In prose and verse.) Printed by R.B., London, 1604.

Thomas Churchyard: Churchyard's Good Will. Sad and heavy verses for the losse of the Archbishop of Canterbury (John Whitgift.) Simon Stafford, London, 1604.

John Davies of Hereford: Bien Venu. Greate Britaine's Welcome to her greate friendes and deere brethren the Danes. Nathaniel Butter, London, 1606. A poem on the visit of King Christian IV of Denmark to England.

Thomas Collins: The penitent Publican, his confession of mouth. (In verse.) Arthur Johnson, London, 1610.

Thomas Deloney: Thomas of Reading, or, the sixe worthy yeomen of the West. Now the fourth time corrected and enlarged. London, 1612.

A collection of 24 English corantos or news sheets, six printed in London and the others at Amsterdam, The Hague and Alkmaar, 1620 and 1621. The earliest English newspapers previously known are of the year 1622.

George Chapman: Pro Vere, Autumni Lachrymae. Inscribed to the immortal memorie of the incomparable souldier Sir Horatio Vere, besieged and distrest in Mainhem. (In verse.) Printed by B. Alsop for Th. Walkley, London, 1622.

A Catechism of Christian Religion. Widowe of G. Veseler. Amsterdam, 1626.

G. Delamothe: The French Alphabet, teaching in a very short time to pronounce French naturally, etc. George Miller for Luke Fawne, London, 1633.

The Pleasant History of Cawwood the Rooke, or the Assembly of Birds. Printed by T. C. for F. Grove, London, 1640.

Eikon Basilike, 1649. Bound in black calf with a silver gilt medallion of the head of King Charles I on each cover; a binding hitherto unrepresented in the Library.

Le Monde dans la Lune, etc. Rouen, 1656. A translation of "A Discovery of a new Worlde in the Moone," by John Wilkins, Bishop of Chester, first published in 1638.

John Dryden: The State of Innocence and Fall of Man. An opera. London, 1684.

Franciscus Lichetus: In Joh. Duns Scotum supra secundo Sententiarum commentaria. Salo, 1517. The first of several books printed by Paganino Paganini, of Brescia, at Salo on Lake Garda, a press hitherto unrepresented in the Library.

Die Messe von der Hochzeyt D. Andre Carolstadt. Wittenberg [1522]. Apparently the first form of a marriage service drawn up by the German reformers.

Joannes a S. Stephano: Practica brevis ac universalis omnium summarum, etc. Brundisii, 1627. The first book printed at Brindisi.

Music.

John Dowland's Lachrimae, or Seauen Teares figured in seauen Passionate Pauans, Galliards and Almands, set forth for the Lute, Viols or Violins in five parts. J. Windet, London, 1605. One of the rarest 17th century music-books.

Seven collections of part-books, completing the copies in the Library of the following works:—

1. Madrigali ariosi. Venice, 1559.
2. C. Jannequin. Canzon Francese. Lib. 2. Venice, 1560.
3. B. Giacomini. Madrigali. Lib. 1. Venice, 1563.
4. C. de Rore. Madrigali. Lib. 4. Venice, 1563.
5. P. Verdelot. Tutti li Madrigali del Primo et del Secondo Libro. Venice, 1565.
6. O. Lasso. Madrigali. Lib. 1. Venice, 1565.
7. C. de Rore. Madrigali. Lib. 5. Venice, 1566.

Wolfgang Ammon. Libri Tres Odarum Ecclesiasticarum. Leipsic, 1579.

Donations.

The following donations may be mentioned:—

"Auszüge aus dem Tagebuch der Herzogin Auguste von Sachsen-Coburg-Saalfeld, 1805–1821." Privately printed. *Presented by H.R.H. Princess Henry of Battenberg.*

History of the Russian Senate for two hundred years, 1711–1911. 5 vol. St. Petersburg, 1911. *Presented by the Procurator General of the First Department of the Senate of the Russian Empire.*

"Forty Years of Rajkumar College." 7 vol. *Presented by H. H. Sir Bhavsinhji, K.C.S.I., Maharaja of Bhavnagar.*

Twenty-six volumes containing first or early numbers of newspapers published in Great Britain during the years 1838–1883. *Bequeathed by T. F. Dillon Croker, Esq.*

Martin Luther's Table Talk, 1791. With copious MS. notes by S. T. Coleridge. *Presented by the Misses Field, of Hampstead.*

Ballads and Broadsides chiefly of the Elizabethan period, in the Library at Britwell Court. 1912. *Presented by S. R. Christie-Miller, Esq.*

Songs, Ballads, and instrumental pieces composed by King Henry VIII. 1912. *Presented by Earl Beauchamp, K.C.M.G.*

A collection of files of newspapers published in the British Colonies during the year 1911. In continuation of the files presented in former years. *Presented by the Royal Colonial Institute.*

Arthur W. K. Miller.

Department of Manuscripts.

1. *Catalogue of Additions.*—The quinquennial Catalogue for 1906–1910 has been issued.

The following MSS. acquired in 1911 have been described and indexed: Additional 38147–38157, 38161, 38167–38177, 38182–38187, 38190–38196, 38203–38236, 38241–38378, 38383–38407, 38416, 38419–38442, 38462–38467, 38490, 38491, 38497–38510.

Of those acquired in 1912, Additional 38511–38526, 38529, 38530, 38532, 38582–38590 have been described and indexed.

2. *Catalogue of Greek Papyri.* — The following Papyri acquired in 1911 have been described and provisionally transcribed, viz., 1873–2036; and in preparation of Vol. V. of the Catalogue, 1547–1607, 1787–1820 have been described and copied.

3. *Catalogue of the Royal MSS.*—Sheets TT and UU of Vol. II. have been revised, and Sheet XX is in print. Descriptions of 19 C. I–19 E. VI. have been revised and sent to press. Descriptions of Kings MSS. 2–4 have been revised.

4. *Catalogue of Irish MSS.*—The following MSS. have been described:—Additional 11609, 30512, 33933 and Egerton 91–93, 136, 137, 1781, 1782, 1791.

5. *Catalogue of Charters.*—Vol. II. of the General Index of Charters acquired up to 1900 has been issued.

Additional Charters 55488–55544 acquired in 1910, 55545–55878, 56051–56365 acquired in 1911 and 56366–56432 acquired in 1912 have been described and indexed.

6. *Binding.* — One hundred and three Additional MSS. newly acquired, and ninety-three MSS. of the old collections have been bound, repaired, or lettered, together with one hundred and seventy-four pieces of Papyri and seventy-three Books of Reference, volumes of Facsimiles, and Catalogues. One hundred and sixty-four Charters have been repaired.

7. *Verification.*—The entire collection of MSS. has been verified by comparison with the Shelf-Lists.

8. *Reproductions.*—Royal MS. 2 B. VII. (Queen Mary's Psalter) with introduction by Sir George Warner has been issued.

9. *Stamping, folioing, and placing.*—One hundred and eighty-one Additional MSS., one hundred and eighty-nine Charters and Rolls, and two hundred Books of Reference (all newly acquired) have been stamped. The total of impressions made was 22,699.

Two hundred and ninety-one MSS. have been folioed, with a total of 76,071 folios. 7,097 slips have been numbered.

Sixty-four newly-acquired MSS. and 365 Papyri have been placed, and ten MSS. of the old collections have been re-placed.

All have been press-marked and entered in Hand- and Shelf-Lists. Eleven hundred and thirty-nine Charters and Rolls have been placed and have been entered in the Hand-List. Numbers have been written on 1219 newly-acquired Charters, and, generally, numbers have been re-written on Rolls returned from the Binders. Thirty-five Seals and Casts have been provided with boxes, placed, and entered in Hand-Lists.

10. *Books of Reference.* — One hundred and ninety-nine volumes and parts have been received, catalogued, and placed.

Twenty-five volumes and parts of Facsimiles were added to the series now deposited in the Department and available for the use of Readers.

11. *Consultation of MSS.*—35,555 MSS. and 2,511 Charters and Seals have been consulted in the Students' Room, and seventy-nine MSS. in the Reading Room. The number of Students was 12,142.

Magna Charta was exhibited to 16,578 visitors.

12. *MSS. photographed.*—Seven hundred and seventy-nine MSS. (including Papyri, Charters and Seals) were allowed to be photographed, with a total of 8,925 photographs taken.

13. *Exhibitions.*—The General Collection of MSS. exhibited to the public has been slightly rearranged, and a new Guide, in three parts, has been issued.

Five special exhibitions of MSS. were set out for lectures and visits by separate parties.

14. *Acquisitions.*—The number of Manuscripts and Documents, &c., acquired during the year has been:—

Additional MSS.	141
Egerton MSS.	1
Charters and Rolls	1,258
Papyri	None
Detached Seals and Casts	53

The most valuable acquisition during 1912 is a collection of thirty-six original letters of Erasmus, nearly all addressed to his Antwerp banker, E. Schets. Original letters of Erasmus very rarely come into the market, and even of public libraries only those of Basle and Copenhagen now possess as many as the British Museum.

The Museum has benefited, as usual, by the generosity of private donors, the principal gifts including:—

A volume of autograph directions by Thomas Gray for the publication of the 1768 edition of his poems, including the text of three poems then first printed. *Presented by Miss Laetitia Sharpe.*

Liber Regalis, or Order of the Coronation of Kings of England, 14th cent. *Presented by Rev. E. S. Dewick,* to whom it was bequeathed by Sir Thomas Brooke, Bart.

Journal of George Gilbert, midshipman, on Captain Cook's third voyage, 1779. *Presented by Alban Doran, Esq.*

Autograph letter of Shelley to Mrs. Williams, 4 July 1822, one of the last letters written by the poet. *Presented by Lt.-Col. and Mrs. C. F. Call.*

The large collection of papers of the Earls of Liverpool, presented in 1911, has been supplemented by the purchase of eighteen more volumes, containing original letters of George III., George IV., and other members of the Royal Family, Pitt, Canning, Castlereagh, Peel, and other statesmen, and papers relating to the trial of Queen Caroline.

Among other acquisitions during the year, by purchase or donation, are the following :—

Acts and Epistles in Greek, written A.D. 1312.

Prudentius, Peristephanon, 11th cent.

Epistolae canonicae, 12th cent.

Origen on Numbers, Joshua, Judges and Kings, in Latin. Written in Italy, with initials in colours, 12th cent.

Benedictional of an Abbey near Cambrai, 12th cent.

Latin psalter, executed in Scotland, 14th cent., with initials of Celtic type. *Purchased from the Bridgewater Fund.*

Johannes Andreae, Novella super sexto, with miniature and initials of French work, A.D. 1345.

York breviary, incomplete. Early 15th cent.

Spiegel der Maechden, Dutch version of the Speculum Virginum. Early 15th cent.

Horae of Paris use, with miniatures and borders. First half of 15th cent.

Constitutiones Ordinis Heremitarum S. Augustini. 15th cent.

Breviary of the Brigittine Order of Genoa, written in 1470.

Seven psalms composed by Petrarch and miscellaneous prayers, written in Poland for Alexander, afterwards King of Poland, in 1491.

Feudal aid-book of Norfolk, 1347.

Book of drafts of letters by the Latin Secretary of James I., 1620-1623.

Petitions in the Court of Requests, 1638.

Rolls of Sir Spencer Compton as Paymaster of the Forces 1721–1723 and as Paymaster of Chelsea Hospital 1725. *Presented by Charles Dalton, Esq.*

Journal of Gen. Boyd's headquarters during the siege of Gibraltar, 1781–1783. Two volumes.

Record of the Westminster Committee, 1780–1785 ; partly in the hands of Fox and Sheridan.

Diary of James Young in the second Mahratta campaign, 1804, a report by the same 1819, and letters to him from the Marquess of Hastings, 1817–1820.

Copies of certain Wellington despatches, etc., by Col. Gurwood. *Presented by Viscount Esher.*

The 15th cent. roll of arms known as the Dering roll, on which are depicted 300 coats of persons of the 12th and 13th centt.

Collections of R Sanderson (d. 1741) relating to the reign of Henry V., including transcripts from Cotton MSS. since burnt.

Commonplace-book of the Shann family of Methley, circ. 1592–1632.

Prayers written in the Tower in 1653 by Philarchus (Col. Walter Slingsby?).

Letters of Sir Humphry Davy to J. G. Children, 1808–1817.

Letters on antiquarian subjects addressed to Sir H. Ellis, 18th–19th centt.

Journals of travel to Smyrna and Athens, etc., 1813, 1814. Two vols.

Tracts and correspondence and notebooks of Sir Henry Ellis relating to Domesday Survey, etc. 3 vols. *Presented by H. J. Ellis, Esq.*

Collections relating to the stage and drama by James Winston, circ. 1825, 1 vol., and by Crofton Croker, 3 vols.

Genealogical collections by H. C. Malden. 9 Vols. *Presented by Mrs. Malden.*

Collections relating to the Julian and Gregorian Calendars by Rev. S. B. Burnaby. *Presented by Mrs. Burnaby.*

Collection of watermarks traced from Canterbury registers by M. Beazeley, Esq., Hon. Librarian to the Dean and Chapter. *Presented by the compiler.*

Letters addressed to Leigh Hunt, supplementing a series purchased in 1910. They include letters of Mary Shelley, Jane Williams, Carlyle, Macaulay, J. S. Mill, and others. 2 vols.

Forty letters of Sir E. Landseer to F. C. Lewis and Charles Lewis, 1830–1855.

Autograph MSS. of some of the poems of James Thomson ("B. V.") including the City of Dreadful Night, etc.

Autograph MSS. of Sir Spencer Walpole's History of England from 1815, and History of Twenty-five Years 1856–1880. 9 vols. *Presented by F. C. Holland, Esq.*

Court-books of West Peckham, *temp.* Chas. I., and of Humbershoe manor, co. Hertf., *tempp.* Chas. I.—Chas. II.

Court-roll of the manor of Wimbish, co. Essex, *tempp.* Ric. II.–Henry VII.

Court-rolls of West Ham, 1580–1587, and estreat-rolls of the Liberty of the Savoy, 1740–1748.

A collection of charters (678) *tempp.* Hen. I.–Edw. VI. Collected by the late Mr. James Coleman.

Charters (245), *tempp.* Hen. III.–Edw. VI., relating chiefly to the Isle of Wight.

Charters (41), *temp.* Hen. II.–1586 (including four of the 12th century).

Plans of earthworks in co. Lincoln, by Rev. E. A. Downman.

Autograph MSS. of musical compositions and other works of Robert Lucas de Pearsall, 1795–1856.

Lute-solos by English composers of the first half of the 17th cent.

Sonatas for two oboes, etc., by R. Valentine, early 18th cent.

Purcell's first and second service in B-flat in the hand of J. Alcock (1715–1806) and other music.

J. P. Gilson.

Department of Oriental Printed Books and MSS.

Arrangement and Cataloguing.—The numbers of the sheets of the various Oriental Catalogues and other publications of the Department sent to press in 1912 are:—Arabic MSS. Hand list, 8 sheets; Armenian MSS. Catalogue, 20 sheets; Coptic Texts, vols. 2–3, 41 sheets; Hebrew MSS. Catalogue, 12 sheets; Hindi Printed Books Catalogue, 27 sheets; Telugu Printed Books Catalogue, 8 sheets.

The numbers of Titles written for the Catalogues are:—Arabic, 1,073; Assamese, 33; Avestan, 3; Baylonian, 1; Bali, 1; Bengali, 585; Burmese, 324; Cambojian, 1; Chin, 1; Chinese, 1,335; Coptic, 10; Ethiopic, 7; Georgian, 11; Gujarati, 105; Hebrew, 72; Hindi, 922; Hindustani, 442; Kanarese, 250; Kanauri, 1; Karen, 11; Khassi, 3; Kui, 6; Kurku, 2; Kuvi, 1; Laos, 1; Lushai, 5; Malayalam, 33; Marathi, 118; Mundari, 6; Naga, 6; Oraon, 2; Oriya, 73; Pahari, 2; Pahlavi, 5; Pali, 192; Panjabi, 78; Persian, 949; Prakrit, 18; Pushtu, 13; Sanskrit, 1,119; Shan, 4; Siamese, 14; Sindhi, 22; Sinhalese, 91; Syriac, 18; Tai, 1; Tamil, 615; Taungthu, 2; Telugu, 609; Tibetan, 12; Tulu, 7; Turkish, 32. Total, 9,247.

Six Georgian MSS. and 16 Hebrew MSS. have been fully catalogued.

Ninety-four short descriptions of MSS. have been entered in the Descriptive List, the Register, and the Classed Inventory.

One hundred and thirty-nine MSS. (15,966 folios) have been folioed.

The exhibition of Chinese and Japanese printed books and woodcut pictures in the King's Library has been rearranged, and new descriptions have been written where necessary.

Publications.—Vol. 2 of the Coptic Texts (containing versions of Deuteronomy, Jonah, and Acts), the second fascicule of vol. 3 of the Catalogue of Hebrew MSS., and a Catalogue of Telugu Printed Books have been issued.

Binding.—The numbers of Printed Books and MSS. sent to the binders are:—Arabic and Persian Books, 179; Chinese Books, 231; Hebrew Books, 54; Mongolian Books, 27; Books in Sanskrit and other Indian languages, 239; Tibetan Books, 87; MSS., 165.

Students.—The number of visits of Students working in the Students' Room attached to the Department during the year is 2,446. The number of Oriental Printed Books read by them in the Department is 7,229 (4,756 having been issued once only, and 2,473 reserved), and of those used in the Reading Room, 3,236. The number of Oriental MSS. read in the Students' Room is 5,476.

Photography.—Ninety-six applications have been made to photograph books and MSS. in this Department.

Additions.—The number of volumes, pamphlets, &c., added to the collections of the Department during the year is 2,144, of which 2,067 are Printed Books and 87 are MSS.

Of the Printed Books, 1,912 were bought; 1,863 were received under the India Copyright Act; 88 were received under the Colonial Copyright Acts from Ceylon and Hongkong; and 155 were presented. Of the MSS., 78 were bought and the rest presented.

The MSS. are as follows:—

Arabic	52	
Arabic and Persian	2	
Chinese	3	MSS. and 1 collection of inscribed bones.
Coptic	1	(set of fragments).
Hebrew	1	
Kashmiri	1	
Persian	8	
Persian and Turkish	1	
Sinhalese	1	
Syriac	1	
Turkish	15	
Tota	87	

The most important acquisitions are as follows:—

Arabic MSS.—(1) Al-Ḥamāsah, the poem of Abu Tammām. Copied A.H. 491 (A.D. 1097), with supplements probably of the xiiith century. 8°.

(2) Kitāb al-luma', a treatise on Sufism, by Abu Naṣr 'Alī ibn 'Abd Allāh al-Sarrāj. Copied A.H. 548 (A.D. 1153). 8°. Probably the oldest surviving copy of this important work.

(3) A collection of Traditions derived from Al-Bukhārī's Ṣaḥīḥ, with marginal supplements giving traditions found in Muslim's recension of Al-Bukhārī and in Malik's Muwaṭṭa'. Copied A.H. 581 (A.D. 1185). 4°.

(4) Amāli, traditions of Al-Jurjānī (Abu 'Abd Allāh Muḥ. ibn Ibrāhīm ibn Ja'far al-Ja'farīyah al-Yazdī). xii–xiiith century. 12°. Extremely rare.

(5) Vol. ii. of the Kitāb al-gharībain of Abu 'Ubaid al-Harawī, a lexicon of the Koran and Traditions, finely written and well collated. xii–xiiith century. 8°.

(6) I'jāz al-ḳur'ān, a treatise on the theology of the Koran, by Abu Bakr Muḥ. ibn al-Ṭaiyib ibn Muḥ. al-Bāḳilānī al-Ash'arī. xii–xiiith century. 8°. Extremely rare; only one other MS. is known to exist.

(7) Ḳawā'id al-ilāhīyah, a treatise on metaphysic, by Sa'īd ibn Maitham ibn 'Alī al-Baḥrānī. Copied A.H. 658 (A.D. 1259). 8°.

(8) A commentary by 'Alā al-Dīn ibn Muḥ. al-Samarḳandī on the Manẓūmah of Al-Nasafī. Copied A.H. 659 (A.D. 1260). 4°. Only two other copies seem to be known.

(9) Faḍā'iḥ al-bāṭinīyah, an exposition and refutation of the doctrines of the Karmathians, Ismā'īlīs, and other esoteric sects of Islam, by Al-Ghazzālī. Copied A.H. 665 (A.D. 1266). 8°. No other copy is known to survive.

(10) Al-Īḍāḥ, a commentary on Al-Zamakhsharī's Mufaṣṣal, by Ibn al-Ḥājib. Copied in the Niẓāmīyah College at Bagdad in A.H. 673 (A.D. 1274), and collated with the author's autograph in A.H. 676 (A.D. 1277). 4°. Only one other copy seems to be known.

(11) Al-Mughni fi al-naḥw, a treatise on grammar, ascribed to Taḳī al-Dīn al-Tamīmī. Copied A.H. 674 (A.D. 1275). 4°. No other copy appears to be known.

(12) Al-Manhūkah, a poem by Abu Nuwās, with commentary by Abu al-Fatḥ 'Uthmān ibn Jinnī. Copied A.H. 680 (A.D. 1281). 8°. No other MS. appears to survive.

(13) Madārij al-kamāl, a work on spiritual perfection, glosses by Shihāb al-Dīn al-Suhrawardī on dicta of Shaikh Abu Muḥ. al-Jarīrī, and other tracts. The first tract was copied A.H. 697 (A.D. 1297). 8°.

(14) Ḳūt al-ḳulūb, a treatise on the religious life, by Abu Ṭālib al-Makkī. Vols. V. and VI. xiiith century. 8°.

(15) Al-Mu'jam, notices of the Imāms, Shaikhs, and other famous men, especially Shāfi'īs, by Ḥāfiẓ Abu al-āsim 'Alī ibn al-Ḥasan (Ibn 'Asākir); with a supplement styled Kitāb al-wahm by Ḥāfiẓ Ḍiyā al-Dīn Abu 'Abd Allāh Muḥ. ibn 'Abd al-Wāḥid al-Muḳaddasī. Copied A.H. 703–4 (A.D. 1303–4).) 4°. Exceedingly rare.

(16) Al-Badr al-munīr, a treatise on dream-interpretation, by 'Abd Allāh ibn 'Alī al-Baṣri (Ibn Jaidān). Copied, in the author's handwriting, A.H. 727 (A.D. 1326). 8°. Apparently otherwise unknown.

(17) Sharḥ lubb al-lubāb, a treatise on grammar, by Al-Isfarā'inī, with a commentary by Muḥ. ibn Mas'ūd al-Shīrāfī. Copied A.H. 737 (A.D. 1336). 4°.

(18) 'Ajā'ib al-ḳulūb and Ādāb al-murīdīn, Sufic works by 'Ubaid Allāh ibn Muḥ. al-Samarḳandī. Copied A.H. 743 (A.D. 1342). 12°. Apparently not known to survive elsewhere.

(19) A MS. containing Al-Tamhīd, a treatise on Shāfi'ī law, and Al-Kaukab, a treatise on grammar in so far as it forms the basis of law, both by 'Abd al-Raḥmān ibn al-Ḥasan al-Isnawī. Copied A.H. 775 (A.D. 1373). 4°.

(20) Kitāb al-wafā, an account of Muḥammad's life and work, by 'Abd al-Raḥmān ibn 'Alī (Ibn al-Jauzī). Copied, in

a fine hand, A.H. 787 (A.D. 1385). Followed by Al-Tirmidī's Kitāb al-shamā'il, traditions of Muḥammad, copied A.H. 791 (A.D. 1388). Fol. Apparently only one other complete copy of the Kitāb al-wafā exists in Europe.

(21) Vol. VI. of the Ta'rīkh Baghdād of Al-Khatīb, a series of biographies of the scholars of Bagdad, etc. More than half the book is written in a handwriting of about 1300 A.D., the rest in a hand of the xviith century. 4°. Extremely rare and important.

(22) Al-La'āli wa'l-durar, notices and anecdotes of famous men, by Al-Tha'ālibī. xiv–xvth century. 4°. Very rare.

(23) Tatimmat al-ibānah, a supplement by Abu Sa'd 'Abd al-Raḥmān ibn Ma'mūn al-Mutawallī to Al-Ibānah, a treatise on Shāfi'ī law by Al-Fūrānī. Vol. IV. xiv–xvth century. 8°. Extremely rare.

(24) Tarājim Ibn Taimīyah, notices of Ibn Taimīyah by contemporaries, compiled by Muḥ. ibn Abi Bakr 'Abd Allāh ibn Muḥ. (Ibn Nāṣir al-Dīn); followed by a tract in defence of Ibn Taimīyah's orthodoxy. Copied A.H. 880 (A.D. 1475). 12°. Apparently unknown.

(25) Dīwān of Al-Raḍī. xvth century. 8°.

(26) Nahj al-ḥakk and Minhāj al-karāmah, works on Shiah theology, by Al-Ḥillī. xvth century. 8°.

(27) Faid al-ghaffār, a commentary by Muḥ. ibn 'Abd Allāh al-Timirtāshī on a treatise on Ḥanafī law by Ṭāhir ibn al-Ḥasan. Transcribed in A.H. 995 (A.D. 1586) from the author's autograph, which was completed A.H. 982 (A.D. 1574). 8°. No other copy seems to be on record.

(28) Mirkāt al-mubtadi'īn, a commentary, ascribed to Ḥamīd al-Dīn Ḥāmid ibn Aiyūb al-Kurashī, upon the 'Uḳūd al jawāhir, a treatise on Ḥanafī law attributed to Sadīd al-Dīn Muḥ. ibn Abi Bakr al-Bukhārī (Imām Zādah). xvith century. Followed by Al-Tamhīd fi bayān al-tauḥīd, a work on the principles of Islam, by Abu Shukūr al-Sālimī; copied A.H. 1001 (A.D. 1592). Fol. Of the first work no other copy is recorded.

(29) Vol. IV. of Al-Muḥīṭ al-Burhānī, a treatise on Ḥanafī law, by Burhān al-Dīn ibn Maḥmūd al-Bukhārī. xvith century. 4°. Rare.

(30) A MS. containing tracts on Sufism and lives of famous Sufis. xvi–xviiith century. 12°.

(31) Kitāb al-milal wa'l-duwal, a treatise on astronomy by Abu Ma'shar, followed by cognate tracts. xviith century. 12°.

(32) Fihrist asmā musannifī al-shī'ah, alphabetically arranged notices of Shiah writers, by Al-Jalīl Abu al-Ḥusain Aḥmad ibn 'Alī al-Najāshī al-Asadī. xviith century. 8°. Only one other copy is known to exist.

(33) Kunh al-murād, a commentary by Al-Suyūṭī on Ka'b ibn Zuhair's poem Bānat Su'ād. Copied A.H. 1149 (A.D. 1736). 8°.

(34) Khulāṣat al-ta'rīkh, chronologically arranged lives of famous kings and scholars, by 'Alī ibn 'Umar al-Kashshāsh. xviiith century. 4°. *Presented by G. Clauson, Esq.*

(35) 'Unwān al-majd fi ta'rīkh al-najd, a history of Nejd from the xiith to the xiiith century of the Hijra, by 'Uthmān ibn 'Abd Allāh al-Ḥanbalī. Copied A.H. 1270 (A.D. 1853). 4°.

(36) A collection comprising 16 Wahhābī tracts and three other MSS. xviii–xixth century. *Presented by Colonel S. R. Miles.*

Arabic and Persian MS.—(1) A MS. containing a glossary of mystic religious terms; Zubdat al-ḥaḳā'ik, a doctrinal work by Muḥ. 'Azīz al-Nasafī, in Persian; Al-Fiḳh al-akbar and Al-Waṣiyah, tracts on the principles of Islam, by Abu Ḥanīfah, in Arabic: glosses on works of Ibn al-'Arabī, in Arabic and Persian; and Ghāyat al-imkān, a theological tract by Al-Ghazzālī, in Arabic and Persian. The last work copied A.H. 978 (A.D. 1570). 8°.

Chinese MSS.—(1) A collection of more than 300 pieces of bone, of various sizes, inscribed with very archaic Chinese characters recording the divination afforded by the cracks appearing on bones seared with a hot iron. Probably of about the earlier half or middle of the Chou Dynasty (B.C. 1122–249).

(2) Nan hua chên ching nei ch'i p'ien, chapters 1–7 of Chuang Tzŭ's treatise on Taoist mysticism, written on a roll of Sung silk measuring 794 by 15.5 cm., and dated in the Hsüan-ho period (A.D. 1119–1125).

Kashmiri MS.—(1) A volume of poems on Hindu religion and philosophy, in Persian script. xixth century. 4°. *Presented by Dr. A. K. Coomaraswamy.*

Persian MSS.—(1) The Maṣnavī i Ma'navī of Jalāl ul-Dīn Rūmī. A finely written copy, with beautifully illuminated *'unwāns*, and some full-page illustrations and small miniatures. Dated in the colophon A.H. 695 (A.D. 1295). 8°. *Presented through the National Art-Collections Fund by Henry Van den Bergh, Esq.*

(2) Tajnīsāt i Fattāḥī, a treatise explaining the differences of reading due to differences of diacritic punctuation, by Fattāḥī. Copied A.H. 972 (A.D. 1564). 8°. Rare.

(3) Tuḥfat ul-murshidīn and Al-Mu'tamad fi al-mu'taḳad, treatises on Islam by Imām Shihāb ul-Dīn Faẓl Ullāh Turpushtī. xvi–xviith century. 8°. Apparently very rare.

(4) Rescripts of Sulṭān Ḥusain Baiḳarā, compiled by 'Abd Ullāh ibn Muḥ. al-Marvārīd. xvii–xviiith century. 4°.

(5) Kanz ul-sālikīn, a Sufic tract by 'Abd Ullāh al-Anṣārī. Copied A.H. 1120 (A.D. 1708). 12°. Rare.

(6) Dīvān of Khālid. xviii–xixth century. 8°.

Persian and Turkish MS.—(1) Miftāḥ ul-ghaib and other Ḥurūfī works. xviiith century. 12°.

Turkish MSS.—(1) Mihr u mushtarī, a maṣnavī romance by Munīrī ibn Muḥammad. Copied, in the author's own hand-

writing, A.H. 892 (A.D. 1486). 12°. No other copy appears to be known.

(2) Dīvān of Ashraf Zādah. Copied A.H. 996 (A.D. 1587). 8°. No other copy seems to be known.

(3) A large collection of letters of sovereigns and other celebrated men, including the poet Nav'ī, Sultan Ḥusain Baiḳarā, Sultan Muḥammad Jīlānī, Shaikh 'Ārif Billāh, etc. xvi–xviith century. 8°.

(4) A MS. containing 'Ibrat ul-baḥrain and Riyāẓ ul-rauẓat, poems on ethical subjects by Sharīfī; followed by an epitome of Turkish history. xvii–xviiith century. 8°.

(5) Mu'ammayāt, riddles and poetical conceits by Amrī Chelebī. xvii–xviiith century. 8°.

(6) Zubdat ul-manāḳib, a life of Saiyid Muḥammad ibn 'Alī al-Bukhārī (Amīr Sulṭān), with notices of his family, by Ḥusām ul-Dīn (Ḥusāmī). xvii–xviiith century. 4°.

(7) Futūḥāt i aḥmadiyyah, a biography of Saiyid Aḥmad ul-Badavī, by Muḥammad ul-Vafāḳ Nakshbandī. xviiith century. 8°.

(8) Dīvān of Fanā'ī. xviiith century. 8°.

(9) Dīvān of Nigāh. xviii–xixth century. 8°.

(10) 'Ilm i istiḥkāmāt, a work on military fortifications, with 24 plates of diagrams, by Shaikh Aḥmad ibn Ḥājjī Muḥammad. xviiith century. 8°.

(11) Poems of Raushanī. xviiith century. 8°.

(12) Dīvān of Sulṭān Muḥammad Vā'iẓī, called Bichārah. Copied A.H. 1238–39 (A.D. 1822–23). 8°.

(13) Dīvān of Nūrī. xixth century. 8°.

L. D. Barnett.

Department of Prints and Drawings.

I.—*Arrangement and Cataloguing, etc.*

The exhibition of Japanese and Chinese Paintings, which had occupied the gallery of the Department since June 1910, was closed in April, and an exhibition of five hundred and sixty-five drawings by masters of the British and Continental Schools, acquired with few exceptions since 1904, was opened in June.

The drawings from the Salting Collection, together with drawings by Rossetti and Swan, for some time exhibited in the King's Library, have been removed, and eight Chinese and Japanese paintings have been transferred from the gallery of the Department to replace them.

The preparation, and transcription for press, of the Catalogue of Japanese Woodcuts have been continued.

The preparation of a complete classified index of the works of British artists represented in the Department has been continued.

The preparation of a critical and descriptive Catalogue of the Dutch and Flemish Drawings has been continued.

Vol. III. of the Catalogue of Engraved British Portraits has been published.

The printing of the facsimile in colours of the Early Chinese Roll painted by Ku K'ai-chih has been completed, and the mounting of the several portions of the facsimile is in progress. The descriptive text has been printed.

The card index to periodicals has been brought up to date.

All books of prints and books of reference recently acquired have been catalogued, labelled, and placed.

The work of writing slips for the titles of prints after English Masters, with a view to the preparation of a subject-index of that division of the collection, has been continued.

The work of compiling a topographical slip-index of the English Drawings in the Department has been continued.

An index to the Catalogue of the Crace Collection of London Views has been completed.

A collection, hitherto unarranged, of reproductions of prints by Old Masters has been classified and put in order.

The work of verifying the contents of the cases from the case-list and inserting the case-number in the various portfolios, etc, has been completed.

The woodcuts by Hans and Ambrosius Holbein and other Basle artists, from the Mitchell Collection, have been combined in a single series with those in the older part of the collection, and duplicates have been eliminated.

The engravings after Turner described in Vol. I. of Mr. W. G. Rawlinson's Catalogue have been arranged in the order described, and marked off in the Catalogue.

The work of taking stock of the prints after Italian Masters, and making cross-references from them to the various indexes, has been completed.

The work of making an index to the artists represented in the Catalogue of Engraved British Portraits has been begun.

The work of making a duplicate set of index-slips to the Foreign Portraits has been continued.

An index to portraits contained among drawings by artists of the foreign schools has been commenced.

The portion of the Cheylesmore Collection of Mezzotints that remains unmounted has been arranged in a new series of portfolios, and a list has been prepared for finding them.

One thousand three hundred and forty-one prints and drawings, recently acquired, have been incorporated with the divisions of the Collection to which they severally belong.

Registration.—Four thousand seven hundred and eighty-nine items have been entered in the Register of Acquisitions.

Stamping and Mounting.—Two thousand eight hundred and thirty-two drawings, prints, etc., recently acquired, have been impressed with the departmental stamp and references to the Register.

Ninety-five drawings have been prepared and mounted on sunk mounts, and one hundred and sixty-three prints have been mounted either on sunk mounts or in the ordinary manner.

Five hundred and twenty prints and drawings have been lettered with the artists' names and references to the Register and to catalogues.

All the drawings from the Salting Collection have been impressed with a special stamp.

Students.—The total number of visitors admitted to the Print Room during the year ending 31 December 1912 was 9,833.

Photographing.—Four hundred and twenty-six applications were made for leave to photograph, and 1,676 photographs were taken.

II.—*Acquisitions.*

The total number of prints, drawings, etc., acquired during the year was 5,469, of which the following are the most important:—

Italian School.

Drawings.

Anonymous, School of Fontainebleau. Christ and the woman taken in adultery; red chalk, heightened with white. *Presented by Sir Sidney Colvin.*

Bartolommeo, Fra. Nude figures, study for a group in the altarpiece at Besançon; pen and ink. *Presented by J. P. Heseltine, Esq.*

Cresti, Domenico ("Il Passignano"). The entry of Margaret of Austria into Ferrara in 1598; red chalk, pen and sepia, and sepia wash. *Presented by G. T. Clough, Esq.*

Grassi, Niccolo. A baptism; red chalk, pen and sepia, and wash. *Presented by A. M. Hind, Esq.*

Romanino, Girolamo. Illustration to a romance; pen and ink and bistre wash.

San Gimignano, Vincenzo da. Sheet of studies; pen and ink. *Presented by J. P. Heseltine, Esq.*

Sarto, Andrea del. Study for the fresco of the Madonna and Child and St. John at Porta a Pinti, Florence; red chalk. Studies for the Madonna del Sacco; red chalk. *Presented by J. P. Heseltine, Esq.*

Strozzi, Bernardo. Six male figures in motion towards the left; pen and sepia. *Presented by Mrs. Arundell Esdaile through the National Art-Collections Fund.*

Engravings.

Piranesi, Giovanni Battista. View of the intended bridge at Blackfriars, after Milne. *Presented by B. T. Batsford, Esq.*

Prints arranged to illustrate the Works of Masters.

Camuccini, Vincenzo. Five subjects from Roman history; engraved by P. Bettelini, G. Folo, P. Fontana, and D. Marchetti.

Raphael. St. John the Evangelist; mezzotint by R. Dunkarton.

GERMAN SCHOOL.

Drawings.

Anonymous, 15th century. A gentleman and lady with hands clasped, who form the letter A of an ornamental alphabet; pen and ink.

Breu, Jörg I. The Story of T. Manlius Torquatus and the Gaul, a design for glass-painting; pen and ink. *Presented by Maurice Rosenheim, Esq, through the National Art-Collections Fund.*

Graf, Urs. Soldier bearing the banner of Canton Zug; pen and ink; dated 1521.

Menzel, Adolf von. Portrait, head of a woman; pencil; dated 1902.

Etchings.

Halm, Peter. Head of an old man, after Quentin Matsys.

Hirschvogel, Augustin. Coat-of-arms with an eagle, B. 130.

Kirchner, Eugen. Tennis-players, aquatint.

Klinger, Max. Secession (title-page), S. 286 VII. Book-plate of R. Graul, Singer 305 II.

Koepping, Karl. Nude study, a seated youth. Young woman seated, leaning forward. *Presented by Campbell Dodgson, Esq.*

Pollak, Max. Winter landscape.

Simon, T. Frantisek. Morgenstunde in Paris, printed in colours. L'Estacade. Die Eroberung der Luft.

Engravings.

Dürer, Albrecht. Melancholia, B. 74. Undescribed first state, with the "9" in the third row of figures on the tablet engraved in reverse. *Presented by the National Art-Collections Fund, with the aid of the Dürer Society and of a body of subscribers.*

E. S., the Master. The Four Evangelists, B. 67–70, Lehrs 84–87. Very rare as a complete set. *Presented by the National Art-Collections Fund.* Coat of arms with a fantastic bird. Unique and undescribed (original of Lehrs 219).

Meckenem, Israhel von. A bishop, undescribed copy of Schongauer, B. 61.

St. Erasmus, the Master of. St. John the Evangelist, undescribed.

Engravings of Ornament.

Rösch, G. S. Twelve decorative designs for the Months, engraved by Jacob Wangner, published by Johann Georg Hertel.

Woodcuts.

Anonymous, 15th century. A set of forty metal cuts of the Life of Christ, of which twenty-six are unique, and the remainder only known to exist in one other impression, at Munich, Paris, or Vienna. *Presented by an anonymous donor.*

Anonymous, 15th century. S. Brant, Stultifera navis, Basel, 1498, with one hundred and sixteen illustrations.

Amman, Jost. Title-border to Index in Commentaria Innocentii, 1571. *Presented by Sir Sidney Colvin.*

Anshelm, Thomas. The Virgin and Child and St. Dorothy. Woodcut printed at Tübingen about 1500, of which only one other impression is known.

B.A., the Master (a Benedictine monk of Mondsee in Austria). St. Benedict, coloured by hand, very rare.

Beck, Leonhard. Five proofs of the Weisskunig series; from the Huth Collection.

Burgkmair, Hans. Two proofs of the Weisskunig series, one of which is a unique and undescribed first state; from the Huth Collection.

Cranach, Lucas I. Christ before Annas, B. 9; the Scourging, B. 12; the Crowning with Thorns, B. 13; Pilate washing his hands, B. 15. All proofs, from the Huth Collection.

D. S., the Master. Christ on the Cross, from the Brixen Missal, Basel, 1511; on vellum, coloured.

Dürer, Albrecht. Death and the Soldier, B. 132. Early proof with an undescribed variation in the printed heading. *Presented by Junius S. Morgan, Esq.*

Gerung, Matthias. Christ on the Cross, from the Augsburg Missal, Dillingen, 1555; on vellum.

G. Z., the Master. Title-border to Prima pars Plyniani indicis, Hagenau, 1518. *Presented by Sir Sidney Colvin.*

Schools of the Netherlands.

Drawings.

Anonymous, about 1510–20. St. Jerome in penitence, in a landscape; pen and ink on grey prepared ground, heightened with white; from the Heseltine Collection. *Presented by Leopold Hirsch, Esq.*

Backer, Jacob Adriaensz. Study for the portrait of a lady. Black and white chalk, on grey paper; from the Heseltine Collection. *Presented by Henry Van den Bergh, Esq., through the National Art-Collections Fund.*

Cuyp, Aelbert. Landscape. Black chalk and water-colour wash; from the Heseltine Collection. *Presented by Otto Beit, Esq.*

Dou, Gerard. Portrait of a woman. Black chalk; from the Heseltine Collection. *Presented by Henry Van den Bergh, Esq., through the National Art-Collections Fund.*

Flinck, Govaert. Landscape. Pen and ink and water-colour, signed and dated 1642; from the Heseltine Collection. *Presented by Otto Beit, Esq.*

Gelder, Aert de. The Nativity. Red chalk and sepia, signed and dated 1680; from the Heseltine Collection. *Presented by Otto Beit, Esq.*

Helmbreeker, Dirk. A woman asleep. Black chalk; from the Heseltine Collection. *Presented by Otto Beit, Esq.*

Huygens, Constantyn. View of the Commanderie de Vaillampont. Pen and bistre, dated 1675; from the Heseltine Collection. *Presented by Otto Beit, Esq.*

Koogen, Leendert van der. Head of a girl. Red and black chalk; from the Heseltine Collection. *Presented by Otto Beit, Esq.*

Mierevelt, Michiel Jansz. Portrait head of a lady. Pen and ink.

Rembrandt. Group of five figures, with a child learning to walk. Drawn with the brush in sepia.

Rubens, Peter Paul. A nude woman, kneeling and bending forward. Black and white chalk. *Presented by J. P. Heseltine, Esq.*

Engravings.

Goltzius, Hendrik. A soldier, B. 215. The contemporary copy with a different portrait head.

FRENCH SCHOOL.

Drawings.

Isabey, Eugène. Interior of a church. Fishing boats on a canal. Canal, windmill, and fishing boat. Water-colour; all three signed and dated "La Haye, 1846." *Presented by J. C. J. Drucker, Esq.*

Pissarro, Camille. Woman bathing, and geese; study for an etching; bistre wash, heightened with white. Head of a man, in a cap; pen and ink. *Presented by Lucien Pissarro, Esq.*

Etchings.

Bracquemond, Félix. Landscape, dry point, not described by Beraldi. *Presented by Campbell Dodgson, Esq.*

Claussin, Joseph J. de. Twelve etchings of heads, animals, and subjects after Rembrandt, chiefly in early states.

Rajon, Paul Adolphe. Cornelis Van der Geest, after Van Dyck; a portrait after Rubens; proof. *Presented by Sir Sidney Colvin.*

Ribot, Théodule. Les Éplucheurs. La Recette. *Presented by Campbell Dodgson, Esq.*

Vergésarrat, H. The Seine, from the apse of Notre Dame. *Presented by M. Eugène Rodrigues.*

Watelet, Claude Henri. Group of four women, after Rubens. Dry point, early state.

Engravings.

Bervic, Jean Guillaume. Portrait of Gabriel Sénac de Meilhan, after Duplessis; proof before letters.

Haussouillier, J. La Semaine, after J. A. D. Ingres. Seven proofs and title-page. *Presented by Sir Sidney Colvin.*

Launay, Robert de. Bains publics des femmes Mahométaines, after Le Barbier. Before letters. *Presented by W. H. White, Esq.*

Lithographs.

Bracquemond, Félix. L'arc-en-ciel; printed in colours. *Presented by Campbell Dodgson, Esq.*

Manet, Edouard. Le Corbeau; series of four illustrations to Poe's Raven, in cover. M.–N. 91–95. *Presented by Campbell Dodgson, Esq.*

Toupey, A. Portrait of a man, after Jean Foucquet. *Presented by L. A. Legros, Esq.*

Prints arranged to illustrate the Works of Masters.

Balleroy, A. de. Listening hare, etched by F. Bracquemond. *Presented by Sir Sidney Colvin.*

Chardin, Jean Baptiste. Petite fille jouant au volant, engraved by Bernard Lépicié. *Presented by Sir Sidney Colvin.*

Ingres, Jean Auguste Dominique. Portrait of a lady, engraved in stipple; engraver unknown. *Presented by Sir Sidney Colvin.*

Poussin, Nicolas. Nymphs offering fruit to a river god, engraved by Cornelis Bloemart.

RUSSIAN SCHOOL.

Etchings.

Polunin, Vladimir. Four views of the Temple, five views of Oxford, and a view of Otford Church, Kent. *Presented by the Artist.*

SPANISH SCHOOL.

Engravings.

Anonymous, late 16th century. The Nine Ages of Woman.

FOREIGN ARTISTS WORKING IN ENGLAND.

Etchings.

Legros, Alphonse. Un vieil Espagnol, Cat. No. 21. *Presented by Sir Sidney Colvin.*

Montbard, Georges. Cavalier Serbe, Prêtres surpris par un Orage. *Presented by Sir Sidney Colvin.*

Engravings.

Bartolozzi, Francesco. Georgiana, Duchess of Devonshire, after J. Nixon; Mrs. Gibson, after T. Engleheart; Mrs. Siddons, after W. Hone; all first states. Prudence and Beauty, Genius and Beauty; a pair, after G. B. Cipriani. *Presented by J. C. J. Drucker, Esq.* Head of a woman, after Angelica Kauffmann; before letters. Children at play, after G. B. Cipriani; proof with inscription in the engraver's autograph.

Benazech, Charles. Title-page, Les Consolations des Misères de ma Vie; aquatint, 1781.

Le Blon, Jacques Christophe. Portrait of Carondelet and his secretary, after Raphael; mezzotint printed in colours, damaged. Very rare, only three other impressions having been recorded. *Presented by Messrs. P. and D. Colnaghi & Co.*

Picot, Victor Marie. Portrait of Cervetti, after Zoffany, mezzotint; first state.

Schiavonetti, Luigi. The Cartoon of Pisa; before letters. *Presented by Sir Sidney Colvin.*

Vivares, François. Trade card of Henry Scott, after S. Wale, in two states; trade card of James Scott, after P. Bourguignon. *Presented by C. Davies Sherborn, Esq.*

Woodcut.

Daviel, Léon. Facsimile engraved on wood of a pen and ink drawing of a sleeping child by Augustus John; India proof. *Presented by the Artist.*

ENGLISH SCHOOL.

Drawings.

Benwell, John Hodges. Lady mourning beside an urn; water-colour. Dated 1783.

Callow, William. View of Cochem on the Moselle; pencil and water-colour. *Presented by Miss E. P. McGhee.*

Carlisle, George Howard, Earl of. Minster in Thanet; water-colour. *Presented by Sir Sidney Colvin.*

Creswick, Thomas, R.A. Three landscapes; water-colour.

Danby, Francis, A.R.A. Landscape with two anglers; pen and sepia. *Presented by Sir Harry Wilson, K.C.M.G.* Mount Etna; water-colour. A mountain pool; sepia wash. Landscape with a lake; pencil.

Davis, John Scarlett. Two landscapes; water-colour and sepia.

Dodd, Francis. General Booth preaching in Exeter Hall, 1906; pen and ink. *Presented by the Artist.*

Dyce, William, R.A. Osborne, Isle of Wight. The Rhône at Avignon; water-colour.

Eddis, Eden Upton. Portrait of Lord Macaulay; coloured chalks. Portrait of a lady; coloured chalks. *Presented by Mrs. Henry Pryor Powell.*

Forbes, Elizabeth Adela. Six water-colour drawings:—Twilight; Near Lamorne; Girl with Satchel; Fisher Girl; Woodman; Farm buildings in France. *Presented by Stanhope Forbes, Esq., R.A.*

Girtin, Thomas. A town on a lake, after J. R. Cozens; water-colour.

Harlow, George Henry, R.A. The Kemble family in the trial scene in "Henry VIII."; red and black chalk.

Haydon, Benjamin. Portrait of the engraver William Sharpe; pencil and white chalk.

Hayter, Sir George. Six sketches in pen and ink made at the trial of Queen Caroline in preparation for the picture now

in the National Portrait Gallery:—Queen Caroline; Sir John Copley; the Duke of Leinster, Lord Liverpool and Lord Holland; Theodore Majocchi; Brougham, Majocchi and others; General sketch of the composition. *Presented by M. B. Walker, Esq.*

Hilliard, Nicholas. Design for the Irish Seal of Queen Elizabeth; pen and ink on vellum. *Presented by Mrs. Gellatly.*

Hood, Thomas. Thirteen landscapes; water-colour.

Landseer, Sir Edwin, R.A. Count D'Orsay and Landseer boxing; charcoal. *Presented by E. E. Leggatt, Esq.*

Nash, Edward. Portrait of a gentleman; water-colour, dated 1805.

Pitt, Douglas Fox. Interior of the Reading Room of the British Museum; water-colour. *Presented by Lord Avebury.*

Rich, Alfred W. Lewes Castle; water-colour. *Presented by the Artist.*

Robertson, George. Landscape with a huntsman; black, red, and white chalk. *Presented by E. E. Leggatt, Esq.*

Rossetti, Dante Gabriel. Small pen and ink sketch of Miss Siddal. Small study for Mary Magdalene at the door of Simon the Pharisee. *Presented by Campbell Dodgson, Esq.*

Sambourne, Linley. Two illustrations to "Basil and Annette" (*Good Words*, 1890); pen and ink.

Sherborn, Charles William. The old stone breaker; water-colour. Four landscapes; water-colour. Nineteen designs for book-plates; pen and ink, pencil, and Indian ink wash. *Presented by C. Davies Sherborn, Esq.*

Short, Sir Frank, R.A. Sunrise over Whitby Scaur; water-colour. *Presented by Miss E. P. McGhee.*

Sickert, Walter. Workman washing his hands at a table. Black chalk, heightened with white. *Presented by the Artist.*

Symons, William Christian. The Mill on the hill; water-colour. Cactus dahlias; water-colour.

Woodman, Charles Henry. Fields to the north of Hampstead; water-colour. Roman bridge, North Wales; water-colour. Old Eastbourne; water-colour. *Presented by the Misses Woodman.*

Ziegler, Henry Bryan. View of Ludlow; water colour.

Etchings.

Armington, Frank Milton. Six views of Paris; two views of Canadian scenery. *Presented by the Artist.*

Armington, Caroline. Five views of Canadian scenery. *Presented by the Artist.*

Baskett, C. H. The Silver Moon, aquatint. Walberswick, aquatint. *Presented by Messrs. P. and D. Colnaghi and Obach.*

Bone, Muirhead. The Old Court House, Glasgow. Trial proof E. *Presented by the Artist.*

Brangwyn, Frank, A.R.A. Certificate of the Master Shipwrights' Company. *Presented by the Company.* Certificate of the Executive Council of the Shipping Federation. *Presented by T. L. Devitt, Esq.*

Cameron, D. Y., A.R.A. The Boddin. Dinnet Moor. Ralia. Drumadoon. The Wingless Chimera. Hell's Hole on the Tay. Kerrera. *Presented by an anonymous donor.*

Conder, Charles. Dry point portrait of a lady, first state. *Presented by W. Rothenstein, Esq.* The same, second state and third state in two varieties of printing. *Presented by Campbell Dodgson, Esq.*

Dodd, Francis. New Inn; dry point, fourth state. *Presented by the Artist.*

Forbes, Elizabeth Adela. Eight etchings of rustic subjects. *Presented by Stanhope Forbes, Esq., R.A.*

Howarth, Albany. Amiens (second plate). *Presented by Messrs. P. and D. Colnaghi and Obach.* West door, Rochester. Chapter House door, Rochester. Bamborough Castle, No. 2. Peterborough Cathedral. St. William's College, York. Carnarvon Gate. King's College Chapel, Cambridge. Richmond Castle. Corfe Castle, No. 2. Across the Downs. Simonside, Northumberland. Porte St. Pierre, Auxerre. Lincoln Cathedral. Rose window, Notre Dame. *Presented by Messrs. Dowdeswell and Dowdeswells, Ltd.*

Linnell, John. Sheep in shade, dated 1818.

Livens, Horace Mann. Head of an old woman. Girl with a big book. Girl reading. Fowls. A barrister (two states). Dry point. *Presented by the Artist.*

Lumsden, Ernest S. The Path by Gunga. The Pilgrims, Benares. On the pagoda platform, Rangoon. *Presented by Messrs. Dowdeswell and Dowdeswells, Ltd.*

McLachlan, Thomas Hope. Ten landscape etchings, being the complete work of the artist with the exception of one unique specimen. *Presented by Campbell Dodgson, Esq., and Frank Newbolt, Esq.*

Newbolt, Frank. The Alders, Norwegian river. The Custom House Mole, Bergen. A Norwegian interior. Thirteen etchings of English landscape. *Presented by the Artist.*

Pearce, Charles Maresco. The House by the Meat Market, St. Malo. *Presented by the Artist.*

Robinson, Sir J. Charles, C.B. The Summit of the Pass. Greyhound Inn, Corfe Castle. *Presented by the Artist.* Corfe Castle (H. 16), third state. *Presented by Sir Sidney Colvin.*

Short, Sir Frank, R.A. Dawn, aquatint. The Thames at Twickenham, aquatint. *Presented by Miss E. P. McGhee.*

Strang, William, A.R.A. Four illustrations to Stevenson (Cat. Nos. 359, 360, 363, 364). *Presented by Sir Sidney Colvin.*

Turner, J. M. W., R.A. Bridge and Goats (Liber Studiorum, No. 43), etched state. *Presented by W. G. Rawlinson, Esq.* Pan and Syrinx (Liber Studiorum, No. 80), one of the three impressions known. *Presented by Henry Oppenheimer, Esq.*

Webster, Thomas, R.A. Head of an old woman. Touched proof.

Engravings.

Bell, Edward. George Westcott; mezzotint, undescribed state before letters.

Dunkarton, Robert. Lady Philadelphia Wharton, after Van Dyck; mezzotint, undescribed trial proof. Portrait of a man unknown, after W. Artand; mezzotint, undescribed.

Earlom, Richard. David Barclay, after Houghton; mezzotint, early state before letters.

Green, Valentine. Miravan breaking open the tomb of his ancestors, after Joseph Wright; mezzotint, Whitman 174, undescribed state (I.*a*).

Hodgetts, Thomas. Charles Cartwright, after G. F. Joseph; mezzotint, before letters.

Meyer, Henry. Rev. R. Aspland, after John Partridge. Thomas Dampier, Bishop of Ely, after J. Northcote. Samuel Goodenough, Bishop of Ely, after J. Northcote. All mezzotints, proofs before letters.

Short, Sir Frank, R.A. "Per steam power per hour," Strange 60; original mezzotint. London from Greenwich, Strange 260; mezzotint, after P. Dewint. *Presented by Miss E. P. McGhee.*

Smith, John Raphael. James, Baron Tyrawley, after J. Cuming; mezzotint, proof before letters.

Tomkins, Peltro William. Diana and Actæon; stipple, proof before letters. *Presented by Sir Sidney Colvin.* "He Sleeps"; stipple, proof before letters. *Presented by J. C. J. Drucker, Esq.*

Turner, Charles. John Garnett, Dean of Exeter, after J. J. Halls; mezzotint, Whitman 213, before letters.

Turner, J. M. W., R.A. Shields Lighthouse, R. 801, first state. *Presented by Henry Oppenheimer, Esq.* Study of Sea and Sky, R. 806. *Presented by W. G. Rawlinson, Esq.* The Evening Gun, R. 800. Shields Lighthouse, R. 801, second state. Ship in a Storm, R. 803. Catania, R. 805, first and second states. Bridge and Monument, R. 807. Ship and Cutter, R. 808. The foregoing are a portion of the exceedingly rare original mezzotints by Turner, commonly known as the "Sequels to the Liber Studiorum." From the Taylor Collection.

Turner, J. M. W., R.A. (after, engraved perhaps by H. Dawe). The Felucca, R. 82. A very fine and rare engraver's

proof of an unpublished Liber Studiorum plate. From the Taylor Collection. *Presented by H. S. Theobald, Esq., K.C.*

Ward, William. John Douglas, Bishop of Carlisle, after Sir W. Beechey, R.A. Sir George Campbell, after the same. Henry Moyes and Mr. Nicoll, after John Raphael Smith. Mezzotints, all proofs before letters.

Woodman, Richard. Children playing, after Nicholas Poussin; proofs before letters. Fifteen portraits engraved in line and stipple, in proof states. *Presented by the Misses Woodman.*

Young, John. Rev. Sambrooke Higgins, after Thomas Barber; mezzotint, proof before letters.

Lithographs.

Bonington, Richard Parkes. Marine subject, very rare.

Conder, Charles. Six subjects from Balzac, in portfolio. *Presented by Messrs. Carfax and Company.* Fantaisie espagnole, printed on white silk. Psyche. The Maypole. Invitation Card. *Presented by Mrs. A. Cecil Lawson.* The Leaning Tree. Lucien et Esther, first state and a touched proof. *Presented by Campbell Dodgson, Esq.* The Carnival Set (eight subjects). Fantaisie espagnole. La Peau de Chagrin. Harlequin s'amuse. Cupid's Hour. Portrait of Mrs. Humphrey. Gossip. Un Prince de la Bohème. The Fairy Tale. The Dressing Room. La Guitariste. Esther. Harlequin's Courtship. The Buddha.

Woodcuts.

Burne-Jones, Sir Edward. Eighty-seven illustrations to the Kelmscott Press Chaucer. Fifteen illustrations to other books printed at the Kelmscott Press. Book-plate of Lady Horner. All engraved by W. H. Hooper.

Hooper, William Harcourt. A large collection of his miscellaneous work in proof states, including the rare advertisement of Wilkie Collins' "Woman in White," after Fred Walker, A.R.A.; 27 ornaments and illustrations after William Morris and others for the Kelmscott Press; seven illustrations after C. M. Gere for the Ashendene Press Dante; 246 illustrations after C. Green, C. Keene, J. Leech, R. W. Macbeth, Sir J. E. Millais, A. F. Sandys, J. M. Smith, Sir J. Tenniel, R. Caton Woodville, and other artists; 220 ornaments, trade cards, book-plates, &c., engraved from Hooper's own designs. Four hundred and thirty-four of these proofs were presented by Campbell Dodgson, Esq., the remainder purchased.

Housman, Clemence. Bay Wreath. Book-plates of A. W. Pollard and W. D. Weaver. All after Laurence Housman. *Presented by the Artist.*

Kirkall, Elisha. Portrait of C. Gevartius after Van Dyck; Chiaroscuro.

Moore, Thomas Sturge. Book-plates of May Downs and Archibald Russell; proofs. *Presented by the Artist.*

Ricketts, Charles. Book-plate of Gleeson White. *Presented by H. C. Marillier, Esq.*

Sambourne, Linley. Fifty illustrations to J. L. Molloy's "Our Autumn Holiday on French Rivers," 1874. Twenty-one illustrations to C. Kingsley's "Water Babies," 1886. Engraved by J. Swain.

Scott, Thomas Dewell. Nine proof wood engravings of Moths engraved for H. T. Stainton's "Manuel of British Butterflies and Moths," 1857. *Presented by Alexander Scott, Esq.*

Prints arranged to illustrate the Works of Masters.

Burgess, John Bagnold, R.A. "Stolen by Gipsies"; engraved by Lumb Stocks and C. H. Jeens, proof before letters.

Gainsborough, Thomas. Landscape, engraved by John Boydell, 1747.

New, Edmund Hort. High Street, Oxford; photogravure. *Presented by the Artist.*

Chinese School.

Paintings.

Lin Liang. Wild Geese by a Mountain Stream. Kakemono, painted in ink. *Presented by an anonymous donor through the National Art Collections Fund.*

Ming period. Three kakemono:—Landscape with warriors, signed "Tang Yin"; Summer palace by the lake, signed Yüan Ssŭ; the Gorge, signed "Chu Pang." *Presented by A. W. Bahr, Esq.*

Japanese School.

Woodcuts.

Hiroshige. Fishes, two out of a set of 20. Landscape, one of the 10 views near Kioto. Landscape, one of the eight views of Omi.

Kuniyoshi. Warriors on horseback swimming a river; triptych. *Presented by Sir Sidney Colvin.*

Utamaro. Group of four women and two children; triptych. Women bathing in the sea, others, with children, on the shore; triptych, known as "the small Awabi Fishers."

Yoshi-iku. Portrait of Kuniyoshi, seated. Yoshitomí. Portrait of Kuniyoshi walking, followed by a porter.

Portraits.

Foreign.

Dalou, Jules. Etching by A. Legros. *Presented by Campbell Dodgson, Esq.*

Dhuleep Singh, Maharajah. Chromolithograph by M. and N. Hanhart after F. Winterhalter; set of 25 progress proofs. *Presented by Miss Lane.*

Louise, Princess of Prussia, afterwards Princess Radziwill. Engraving by Meno Haas, 1787.

Manet, Edouard. Etching by A. Masson. *Presented by Campbell Dodgson, Esq.*

English.

Balfour, Arthur James. Etching by C. W. Sherborn after the Marchioness of Granby. *Presented by C. Davies Sherborn, Esq.*

Bell, Sir John. Mezzotint by H. Cousins after John Lucas.

Benson, Martin White, Archbishop of Canterbury. Etching by C. W. Sherborn after H. T. Wells, R.A. *Presented by C. Davies Sherborn, Esq.*

Bidlake, John, D.D. Mezzotint by Charles Turner. *Presented by John Lane, Esq.*

Buckingham and Chandos, Richard, third Duke of. Mezzotint by C. A. Tomkins after the Duchess of Buckingham and Chandos. *Presented by E. E. Leggatt, Esq.*

Carr, Robert James, Bishop of Chichester. Mezzotint by S. W. Reynolds after J. Hayter.

Conder, Charles. Lithograph by Mrs. Humphrey. *Presented by Mrs. Humphrey.*

Gaskell, Charles G. Milne. Photogravure after A. Legros. *Presented by L. A. Legros, Esq.*

George III. Equestrian Statue by R. Westmacott, engraved in stipple; engraver unknown.

Gibson, John, R.A. Etching by J. Brown after H. W. Phillips.

Gordon, Charles. Mezzotint by T. L. Atkinson after Lowes Dickinson.

Gough, Viscount. Mezzotint by H. Cousins after Lowes Dickinson. *Presented by E. E. Leggatt, Esq.*

Jackson, Henry. Mezzotint by W. Strang, A.R.A., after C. W. Furse, A.R.A. *Presented by Sir Sidney Colvin.*

Law, G. H., Bishop of Bath and Wells. Mezzotint by H. Meyer after Sir William Beechey, R.A.

Lennox, Lady George. Mezzotint by J. McArdell after A. Ramsay. *Presented by J. Charrington, Esq.*

Mulready, William, R.A. Etching by J. H. Robinson

Randolph, John, Bishop of London. Mezzotint by C. Turner after J. Hoppner, R.A.

Sclater, William, D.D. Mezzotint by J. R. Smith after N. Hone.

Staples, Sir John. Engraving by C. W. Sherborn. *Presented by C. Davies Sherborn, Esq.*

Thompson, Sir Edward Maunde, K.C.B. Photogravure, printed in colours, after Sir Edward Poynter, P.R.A. *Presented by D. Macbeth, Esq.*

Thompson, W. H., Master of Trinity College, Cambridge. Mezzotint after Sir Hubert von Herkomer, R.A. *Presented by Sir Sidney Colvin.*

Wheatley, George. Mezzotint by S. W. Reynolds after I. W. Chandler.

History.

The attack on Cadiz by the English fleet under Essex in 1596; rare Flemish engraving. *Presented by Sir Sidney Colvin.*

Book-plates.

Eight American plates. *Presented by Sir Sidney Colvin.*

Plate of J. C. Getting, engraved by G. W. Eve, large and small, in varieties of colour; another of the same by W. Foster. *Presented by J. C. Getting, Esq.*

Plates of A. L. Langman, C.M.G., and Philip Langman, by G. W. Eve; of Lucius Fisher, by E. D. French; of Constance Morgan, by F. Spenceley; and of Charles Phelps, by J. W. Spenceley. *Presented by J. C. Getting, Esq.*

Plate of Sir Arthur Church, K.C.V.O. *Presented by the owner.*

Plate of Bibliotheca Drydeniana, engraved by C. W. Sherborn and finished by Malcolm Osborne. *Presented by H. B. Wheatley, Esq.*

Thirty English book-plates, wanting in the Franks Collection. *Presented by Campbell Dodgson, Esq.*

Eight plates designed by H. Stacy Marks, R.A. *Presented by Campbell Dodgson, Esq.*

Plate of Dr. Alois Rogenhofer, by A. Cossmann. *Presented by the owner.*

Collections and Sets.

Thirty-nine rare portrait mezzotints, by S. W. Reynolds, chiefly proofs before letters in states not recorded in Whitman's catalogue.

One hundred and forty portraits, engraved by Joseph Brown, in proof state, from Baily's Magazine of Sports and Pastimes, 1860–1880.

Four hundred and seventy-eight lithographs, by Richard Lane, A.R.A., chiefly portraits, including many rare and unpublished plates in proof states. *Presented by Miss Lane and Miss Emily Lane.*

Twenty-five portraits of ladies from a series of lithographs, entitled "Leaders of Society," published in the Whitehall Review. *Presented by E. E. Leggatt, Esq.*

Thirty reproductions of pictures in the Brunswick Gallery. *Presented by Sir Sidney Colvin.*

Sixty photogravures from pictures in the Louvre.

Thirty-five coloured reproductions of paintings by Old Masters. *Presented by the Medici Society, Ltd.*

One hundred and ninety-seven proofs of engravings, chiefly heraldic and topographical, by John Emslie. *Presented by J. P. Emslie, Esq.*

A collection of the engraved work of Charles William Sherborn, consisting of 947 book-plates, 138 etchings, two mezzotints, and 76 line engravings, including a large number of unique or rare trial proofs. *Presented by C. D. Sherborn, Esq.*

Four hundred and seventy-eight proofs of wood-engravings by Edward Whymper, including his illustrations to "Scrambles amongst the Alps" (1871), Guillemard's "Cruise of the Marchesa" (1889), Whymper's "Travels amongst the Great Andes of the Equator" (1890), and many illustrations to other books.

Books of Prints and Books of Reference.

Bruwaert Edmond. Vie de Jacques Callot. *Presented by the author.*

Craig, William Marshall. Lectures on Drawing, Painting, and Engraving. *Presented by E. E. Leggatt, Esq.*

Daubigny, Charles. Voyage en Bateau. With 16 etchings by Daubigny.

Goloubew, Victor. Les Dessins de Jacopo Bellini, 1ère partie. *Presented by the author.*

Horae in laudem beatissimæ Virginis Mariæ; Lyons, 1548. With 14 metal cuts by Jacob Faber, from the designs of Holbein. *Presented by the National Art-Collections Fund.*

Le Pois, Antoine. Discours sur les Médailles, 1579. With portrait and other engravings by Pierre Woeiriot.

Levis, H. C. Bibliography of books connected with the history of engraving. *Presented by the author.*

Mascha, Ottokar. Félicien Rops und sein Werk.

Moreau-Nélaton, Étienne. Manet, graveur et lithographe.

Rinder, Frank. Illustrated catalogue of D. Y. Cameron's etched work.

Scott, William Bell. Illustrations to the King's Quhair. *Presented by Sir Sidney Colvin.*

See, R. R. M. English Pastels.

Verzeichnis der Radierungen von Dr. Otto Gampert. *Presented by F. Bruckmann, A.-G.*

Campbell Dodgson.

Department of Egyptian and Assyrian Antiquities.

I.—*Arrangement, Cataloguing, &c.*

Egyptian Antiquities:—

The general re-arrangement of the Egyptian Collections has been continued, and most of the important objects acquired during the year have been incorporated and exhibited.

A number of monuments in hard stone have been washed, and the systematic cleaning of the limestone and sandstone statues, stelæ, &c. has been continued. Many small objects have been treated for efflorescence of salt, and copper plugs have been inserted in mountings and iron ones removed.

The labelling of the exhibits has been continued, and the old sale catalogue numbers and early collection numbers have been checked and restored wherever necessary. Objects, the source of which could not be traced, and which bore the old collection numbers, have been numbered according to their positions in the collection.

A number of stelæ, parts of which were in a crumbling state, have been repaired, carefully washed, re-dried, and re-framed.

The tomb wall paintings in the Third Egyptian Room have been removed from their frames and repaired, and arrangements for effective ventilation have been fitted in the cases.

A selection of sheets from the Greenfield Papyrus has been exhibited in the Southern Egyptian Gallery.

Eighty-three Caen-stone, marble, alabaster, and slate plinths have been worked and prepared; 246 wooden plinths, tablets, stands, plaques, &c. have been prepared and polished; 60 mahogany labels have been prepared and polished; a cabinet for holding casts of scarabs has been made; four trays for holding slip lists of collection numbers have been made; five stelæ frames have been made and glazed and polished, and 12 have been repaired.

Fittings necessary for the safety of the objects during building operations in the first three Egyptian Rooms have been made, and certain collections have been removed and replaced.

Nine hundred and eighteen moulds and casts of the bases of scarabs have been made in connection with the Catalogue of Scarabs which is now being prepared, and the scarabs from which they were made have been cleaned, re-numbered and re-mounted.

Sixty bronze figures, bowls, rings, and other small objects have been cleaned and repaired.

Forty-six figures of gods and sacred animals have been mounted on stone or alabaster plinths.

Ninety-two amulets, figures of different kinds, objects in porcelain, &c. have been mounted on wooden stands and tablets.

Eighty labels have been drafted and painted on plinths, frames, &c., and registration and collection numbers have been painted on 2,800 objects.

Three hundred and forty objects of the old collections have been identified with the registers, and broken and missing numbers have been restored.

Twelve hundred and ninety miscellaneous objects have been registered or re-registered, and the slip inventory of exhibited objects has been continued.

One hundred and twenty-five *ushabtiu* figures have been catalogued.

Drawings of the sculptured portions of about 80 stelæ have been made, and the hieroglyphic and hieratic texts have been copied on about 60 of them.

Works in Progress.

1. *Coptic MSS.*—Oriental No. 6804, Oriental No. 6782, and Oriental 7024 have been copied, and the copies sent to the printer. Twenty sheets are in type, and 14 sheets have been read in proof.

2. *Catalogue of Scarabs.*—Catalogue slips have been written (for the Appendix) for the scarabs acquired recently, and 20 sheets have been read in proof and revise and passed for press.

3. *Egyptian Texts.*—Part IV. is being prepared for publication.

Assyrian Antiquities :—

The general re-arrangement of the unexhibited section of the Babylonian and Assyrian Collections has been continued, and the washing and cleaning of the bas-reliefs have been continued. The replacing of the glass in the Galleries has been completed.

The verification of collections arranged temporarily in the Basement has been completed, the contents of the boxes have been checked, and worn or broken numbers have been restored. As large numbers of the tablets of the Kûyûnjik Collection are in constant use by students, the checking of the numbers and the examination of the fragments for rejoins goes on continually. Five thousand three hundred slips have been written to record the rejoining of fragments.

Three hundred and twelve tablets have been cleaned; 31 tablets have been repaired; 118 tablets have been repaired and rejoined; several "case-tablets" have been opened; 500 tablets have been placed in wool-lined boxes; 6,122 fragments of tablets have been brushed and examined; 35 cylinder seals and miscellaneous stamps have been made.

Eighty-four casts have been made from cylindrical and other seals, and mounted with the originals on cloth-covered mounts.

Six thousand five hundred and twenty-eight tablets offered for purchase have been unpacked and examined.

Sixty-five labels have been drafted and painted, and numbers, registration and collection, have been painted on about 3,000 tablets, &c.

Seventeen hundred and two tablets have been registered, and 1,400 slips for the slip catalogue have been written.

One hundred and twenty-two texts from tablets, &c., have been copied and collated; and 1,408 catalogue slips have been written for the Catalogue of the Kûyûnjik Collection.

Eight hundred and three slips have been revised for the supplementary volume of the Catalogue of the Kûyûnjik Collection.

Works in Progress.

1. *Cuneiform Texts.*—Material is being collected for Part XXXIV.

2. *Kûyûnjik Catalogue* (*Supplement*).—About 2,028 slips for this volume have been written.

Publications.

1. "The Greenfield Papyrus, or the Papyrus of Nesitanebtashru, daughter of Painetchem II. and Nesi-Khensu, about B.C. 970."
2. "Coptic Biblical Texts in the Dialect of Upper Egypt."
3. "Egyptian Texts," Parts II. and III.
4. "Babylonian Boundary Stones and Memorial Tablets in the British Museum." With an Atlas of Plates.
5. "Cuneiform Texts," Parts XXXII. and XXXIII.

Students.—About 3,451 visits have been made to the Department by students and others; and 10,870 objects have been issued for the use of students.

Personally conducted Parties.—Fifty-two parties have been personally conducted through the Department by members of the staff, the number of persons being about 1,500, including pupil-teachers and others from schools.

II.—*Acquisitions.*

i.—EGYPTIAN:—

I.—1. A series of 40 slices of calcareous stone fragments on which are drawn in outline figures of kings, high officials, &c., and drafts of texts which were to be cut on statues. XVIIIth Dynasty. From the Valley of the Tombs of the Kings, Thebes.

2. A series of black, painted wooden figures of certain gods of the dead, which formerly stood in the doorways of tombs, and near the bier. The chief of these are :—

3. A seated wooden figure of the Snake goddess Nehebkau, on a pedestal. She was the goddess of the mountain in which the tomb was situated, and protected the door.

4. A seated wooden figure of Ta-urt, the Hippopotamus goddess, the maternal ancestress of the Egyptians. She guarded the sarcophagus.

5. A seated wooden figure of the Ape god.

6. A seated wooden figure of the Gazelle god, who protected the deceased from the attacks of evil spirits from the mountains.

7. A seated wooden figure of Horus, or Harmakhis.

8. A seated wooden figure of the Sheep-god, or Goat-god, *i.e.*, Amen, or Amen-Rā, the great god of Thebes. His arms are extended, and, when the figure was complete, each hand held in it a crocodile ; this is proved by the Vignette to Chapter clxxxii. of the Book of the Dead.

9. A seated wooden figure of Āpesh, the Tortoise-god, or Turtle-god, whose duty was to supply the deceased with fresh air in the tomb.

All the above figures date from the XVIIIth dynasty, and come from Thebes.

ii. A very important collection of objects of the Predynastic Period, from a cemetery in Upper Egypt ; they appear to belong to the end of the Period, and a few may be early dynastic :—

1. A seated figure of a youth, or young man, with a bent head. This is probably the oldest known example of the plastic art as applied to the human figure.

2–6. Five terra-cotta figures of men, two of them having their arms raised.

7, 8. Two red terra-cotta figures of women of the steatopygous variety.

9. A yellow terra-cotta figure of a steatopygous woman, with designs on the back, and left side, and right leg, which probably represent *tattû* markings. She wears a head-dress.

10. A stone figure of similar shape, but undecorated.

11–27. A group of seventeen terra-cotta women with large pendent breasts and raised arms. These probably represent the women who were buried alive in the tomb of their master.

28. A bowl made of drab-coloured mud, blackened on the outer edge and on the inside.

29. A sun-dried mud figure of a cow, which in the Dynastic Period became the type of the Cow of Hathor.

30. A terra-cotta figure of an animal; identification uncertain.

31. A portion of another figure of the same animal.

32. A couch, or dîwân, in terra-cotta, with figures of three women seated upon it.

33, 34. Two wooden models of boats.

35. A terra-cotta coffin, and a model of the body of a woman.

36. A wooden plough, from a pre-dynastic site, but date uncertain.

iii.—1–11. An important series of eleven marble capitals from pillars found among the ruins of the monastery church of Saint Jeremiah, at Sakkârah. Eighth or ninth century A.D.

iv.—1. A massive bronze hinge with an inscription recording the dedication of a temple to Amen by Princess Amenartâs. About B.C. 670. From Nakâdah.

2–5. Four fragments of bronze edging from the same temple.

6. A bronze toilet box, with cover and studs for fastening. From Karnak. XXVIth dynasty.

7–10. Four Coptic mirrors, each in a circular wooden case. From Armant.

11–14. Four Coptic wooden combs, each of which is decorated with wooden carvings.

15. A hawk-headed seated limestone figure of a warrior-god, the Horus of the Egyptians, and the Ares of the Greeks. Roman Period. From Karnak.

16–65. An important collection of bronze axes, razors, swords, and instruments of various kinds, many of them being very finely worked. From Nakâdah. XIXth dynasty.

66. A bronze weight or counterpoise of a door, with a handle in the form of a ring. From Karnak. XIXth dynasty.

67. A tube for holding eye-paint, inscribed. XXIInd dynasty.

68–70. Three red glazed ware vases. XXth dynasty.

71. A Coptic glass mirror, in its wooden case, inlaid with mother-of-pearl and ebony. A fine object. Christian Period.

72. An ebony jewel-box, or toilet-case, inlaid with figures of saints in ivory or bone. The corners are bound with bronze edging. A very rare object. Christian Period.

73. A green glazed porcelain plaque. From the Sûdân.

74. A green glazed porcelain cartouche of Tirhakah, King of Egypt about B.C. 650. From the Sûdân.

75. A horn from an ox or cow of the Pre-dynastic Period.

76. A large black, painted wooden figure of Osiris, with inlaid obsidian eyes. From the Tuat Chamber in the Tomb of Thothmes III. XVIIIth dynasty.

77. A large steatite scarab, on which is cut the name of Queen Ti. From Sadênga in the Sûdân.

78. A large scarab, of unusual shape and design, with the prenomen Menkheperrā. From Sadênga in the Sûdân.

79. A large, handsome, finely-painted outer coffin of Hent-Mehit, a priestess of Amen-Rā at Thebes about B.C. 1000.

80. A blue paste cylindrical seal of Pepi II. VIth dynasty. From Thebes.

81. An ebony model of a hippopotamus. Pre-dynastic Period.

82. A large flint knife, very finely worked, 12½ in. long. Pre-dynastic Period.

83. A very fine bronze mirror, on the face of which is cut in outline a figure of the deceased adoring a god who is seated in a shrine. The handle is made of ivory; decoration, a double hawk-head. A rare object. XXth dynasty. From Thebes.

84–87. A set of Canopic vases in a deep ultramarine-blue vitreous paste. From the tomb of Amen-hetep II. XVIIIth dynasty. From the Tombs of the Kings.

88. A head of a Canopic vase in blue vitreous paste. XVIIIth dynasty. From Thebes.

89–92. A set of figures of the Four Sons of Horus, Mesta, Hapi, Tuamutef, Qebhsenuf.

93. A large vase, date and provenance uncertain.

94–107. An interesting series of fourteen flints of the Pre-dynastic Period.

108. A wooden model from a tomb of a yoke of oxen engaged in ploughing, with figures of two farmers. From Beni Hasan.

109. A similar model, but with one figure of a man. From Beni Hasan.

110. A large painted earthenware vase. Late Period. From Nubia.

v.—1. A terra-cotta mould for making figures of a Ptolemaïc or Roman Pharaoh, in the character of the Physician-god Imhetep, accompanied by his two apes, Thoth and Asten (or, Astes).

vi. A large and interesting collection of Romano-Egyptian and Meroïtic antiquities, and a collection of miscellaneous predynastic antiquities, excavated chiefly on the Island of Faras, which seems to have been the frontier outpost of Egypt on the south. The following are the most characteristic objects in the collections :—

I. *Antiquities from a Protodynastic Cemetery consisting of objects from eleven tomb-groups, viz. :—*

Ostrich-egg.
Specimens of plain and painted pottery.
A spotted red and buff bowl : Egyptian predynastic.
Three quartz palettes, and pebbles for grinding paint.
Several strings of beads ; shell, carnelian, and garnet.
Bronze chisel : edge found resting on skull and pointing behind head.
Bronze celt : found in front of face.
Tall pot : Egyptian early dynastic.
Upper and lower grindstone : granite.
Blue glaze beads : Egyptian.
Two bronze piercers : one with ivory handle.
Fragments of ivory and shell bracelets.

II. *Antiquities from a "C-Group" Cemetery : XIIth Dynasty :*

Nineteen bowls and pots of black and red incised pottery ; designs often filled with white.
Seven strings of glazed and coloured crystal beads, &c. : one with a carnelian foot-amulet.
Tomb-group consisting of a black-topped bowl, a black incised bowl, a red pot, a white pot, and a grindstone.
Bronze mirror.
One stone bracelet.
One shell bracelet and two shell finger-rings.
Bone needle.

III *Antiquities from the Hathor temple : XVIIIth Dynasty :*

Four fragments of a blue glaze decorated bowl.
One striped blue glaze ball.
Two blue glaze votive ears.
Blue glaze figure of Taurt.
Three blue glaze small female figures.
One similar figure, brown and blue.
Three blue glaze imitation fruits.
One pottery cow.

One pottery female figure.
One pottery female head.
Two pottery female torsos; very crude.
Eighty-three scarabs, exclusively of the late Middle Kingdom and the beginning of the XVIIIth dynasty; chiefly the latter; and including specimens of the Hyksos King Suatchenrā, Kames (XVIIth dynasty), Queen Aāḥmes-Neferitari, Thothmes I., and Thothmes III.
Twelve miscellaneous faïence amulets; flies, figures of gods, &c.

IV. *Antiquities from the Meroïtic Cemetery: Roman Period; consisting of objects from twenty tomb-groups and other finds:—*

Large jar with painted decoration: frogs and plants.
Globular vase with painted crescents and ankh-signs.
Cup with tulip pattern.
"Tumbler" cup with red and white bands.
Cup with birds and palm-branch decoration.
Water jar with leaf decoration in red.
Vase in shape of a ring.
Cup with imitation fluted decoration.
Water jar with eyes painted on the shoulder.
Long-necked jar with black bands.
Amphora with elaborate decoration of ducks and plants.
Large flat jar with lotus flowers on shoulders.
Amphora with frieze of negroes hunting.
Jar with decoration of three giraffes and a man.
Jar with three jackals.
Large jar with scene of lions devouring a negro.
Water pot, with decoration of crow-like birds.
Water jar with snake-pattern.
Water jar with snake and quatrefoils in white.
Water jar with picture of guinea-fowl.
Water jar with two crocodiles.
Cup with griffin, painted.
Four cups with strings of flowers, painted.
Goblet with decoration of *sa*-signs.
Goblet with decoration of *ankh*-signs.
Buff cup with impressed pattern.
Red cup with impressed pattern.
Three black cups with incised pattern; two large pots, similar.
Three vases with appliqué decoration in white.
Two vases of thin ware: imitation of glass.
Six cups of thin, delicate, ware.
Bowl of fine white ware.
Two little pipes: red pottery.
Red saucer: buff inside.
Fragments of a large jar, showing a design of lions.
Bowl with trefoil scroll.
Painted oinochoë.
Double ogee jar, red ware: much sand-worn.

Two fragments of a pot, showing a human hand and a hawk's head: painted.
Fragment of a pot, with altar in black.
Two bronze mirrors, one spatula, one kohl-stick.
Two bronze pans, two "dippers," one thin cup.
Six bronze bowls: plain.
One bowl with embossed ornament.
Three pairs heavy bronze anklets.
Bronze toe ring; twenty finger rings with signets.
Two small bronze bowls with three feet; engraved.
Round bronze bowl; tinned.
Small bronze tripod bowl.
Bronze saucepan and two saucers; tube with strainer.
Three bowls of New Empire type.
Copper coin, Greek mint, of Antoninus Pius.
Iron ring with staple attachment.
Eight lots of iron arrow-heads.
Two stone mace-heads.
Two stone palettes.
Four bottles of plain Roman glass.
Two glass beads of peculiar shape; resembling those worn by the Kings on Meroïtic monuments.
Sixty-four strings of beads, mostly of stone, especially white quartz and carnelian.
Four Meroïtic scarabs: faïence.
Bust of female *Ba*-statue.
Head of a male *Ba*-statue: sandstone.
Torso of sandstone figure of a man.
Fifteen tables of offerings, inscribed in Meroïtic.
Six inscribed stelæ: Meroïtic.
Painted stela: two figures.

V. *From a Meroïtic House*:—

Stone monkey.
Fragments of blue glaze and black ware pottery.
Clay sealings.

VI. *From the Christian Cemetery*:—

Ten lamps: five inscribed.
Four pottery censers.
Tall pottery incense-burner; with original charcoal.
Fragments of decorated pottery.

VII. Architectural fragment: Meroïtic; winged sun on cornice.
Fragment of a relief with inscription of Tutankhamen: XVIIIth dynasty.

ii.—ASSYRIAN:—

i.—1. A large barrel-cylinder of Nabonidus, King of Babylon, B.C. 555–538, inscribed with a text parallel to the great cylinder K. 1628, which was found at Mukayyar, the site of Ur, and was published by Rawlinson. *Cuneiform Inscrip-*

tions, 1, plate 61. It gives passages which are wanting in the Mukayyar cylinder, and supplies new details about the restoration by Nabonidus of the two temples which bore the name Eulmash, the one situated in Agade, the other in Sippar of Anunitum. The references to the restoration of the temple Eulmash in Agade by Ashurbanipal, and to the destruction by Sennacherib of Sippar of Anunitum and its temple, are important facts of history which are quite new.

ii.—1, 2. Two complete and well-preserved barrel-cylinders of Nebuchadnezzar II., King of Babylon, B.C. 605–558, inscribed with texts recording the construction of the temple of Marada, the modern Sedûm. Many parts of the texts are known from cylinders already in the Museum (*i.e*, Rm. 673 and 674), neither of which is complete, but the newly acquired cylinders supply many details. The temple of Marada was called E-idi-Kalama, and was dedicated to the City-god Lugal Marada. The texts end with a prayer to Lugal-Marada, imploring him to report the King's piety to Marduk, the chief of the gods.

3. Green serpentine cylinder-seal engraved with scene representing heroes in conflict.

4. Green serpentine cylinder-seal engraved with a scene representing Gilgamesh, Eabani, and a third mythological being in conflict with a lion and two human-headed bulls.

5. Light green stone cylinder-seal engraved with a similar scene.

6. White marble cylinder-seal engraved with a scene representing Eabani in conflict with a lion and four ibexes.

7. Mottled green steatite cylinder-seal engraved with a scene representing heroes in conflict with a bull, a lion, an ibex, and a stag. In the field are a serpent, a scorpion, a crescent, and a star.

8. Fine lapis-lazuli cylinder-seal engraved with a scene representing two figures of heroes in conflict with bulls. Nos. 3–8 belong to the early Babylonian Period.

9. Fine hæmatite cylinder-seal engraved with a scene representing two mythological beings rescuing bulls from lions. Its owner was one "Danni, the servant of Nergal." The style of the seal indicates a West-Semitic origin. About B.C. 2000.

10. White marble cylinder-seal engraved with a scene representing a worshipper before a seated god, who, according to the inscription, is Nusku, the

Fire-god. Behind the worshipper is a nude figure of a goddess, the consort of Nusku. About B.C. 2000.

11. Green jasper cylinder-seal, on which are engraved the figures of two goddesses; its owner's name was Khazirum. Of Babylonian origin.

12. Stone cylinder-seal engraved with the figures and symbols of the god Adad and the goddess Shala. The owner was "Ili-ishmeani, the son of Mannatum, the servant of Adad." Of Babylonian origin.

13. Stone cylinder-seal engraved with a scene representing a goddess leading a worshipper into the presence of a seated deity, and with a figure of a long-necked bird. Its owner was called Adâ. Of Babylonian origin.

14. A crystal cylinder-seal engraved with the figure of a god and an address to the Sun-god Shamash. Kassite period. About B.C. 1450.

15. Hæmatite cylinder-seal engraved with figures of the Sun-god and his goddess Aa, and with the figure of an attendant bearing a standard surmounted by a solar disk.

16. Chalcedony cylinder-seal engraved with the figure of the the god Ashur rising from a winged solar disk above the Sacred Tree, and figures of a worshipper and a mythological being, the latter wearing a fish-skin and carrying spathes of the date-palm to fertilize the Sacred Tree. About B.C. 700.

17. Paste cylinder-seal on which are engraved figures of two gryphons, a crescent, and an eight-rayed star. About B.C. 500.

18. Stone cylinder-seal of the Persian period, engraved with the figure of a god or king in conflict with lions. About B.C. 500.

19. Red-stone pendant, in the form of a bull, probably from Susa.

20. Bronze figure of a gryphon, which formed one of the handles of a large bronze vessel.

21. Small stone squatting figure, pierced for suspension as a bead or amulet.

22–26. Five tablets inscribed with records of rations issued to officials and others in Larsa. All are dated in the reign of Gimil-Sin, King of Ur. About B.C. 2350.

27. An important collection of 214 tablets, of which 207 are inscribed in minute characters with memoranda of rations of corn, strong drink, oil, sheep, &c., supplied to priests, officials, servants,

and attendants when staying in the town of Lagash on official business. The city of Lagash was on the high road between Babylonia and Elam, and Government servants of all classes stopped there to obtain food for their immediate wants and supplies to be consumed on their journeys to Babylon and Elam. The greater number of the tablets are dated in the reigns of Dungi, Bûr-Sin I., and Gimil-Sin. About B.C. 2375–2325.

28. A large duck-weight on which are cut the name and title of Ur-Ningirsu, Patesi of Lagash. About B.C. 2425.
29. A weight with a handle perforated for suspension.
30. Fragment of a historical tablet from Kûyûnjik.

iii.—HIMYARITIC :—

1. Part of a votive inscription dedicated to Al-Makah, a god of Southern Arabia. VIIIth century B.C.
2. Rectangular slab of limestone, on which is sculptured in relief a human face ; below it is cut a name. This probably served as a gravestone.
3. Rudely cut limestone figure of a king, or chief. From Sanaa. About B.C. 500.
4. Fragment of an inscription of a votive character.

iv.—PALESTINIAN :—

A collection of scarabs, earthenware vessels of various shapes and sizes and periods, which have been obtained at and in the neighbourhood of Gezer in Palestine. These objects illustrate the fictile art in Syria from about B.C. 1500 downwards, and many of them belong to classes of antiquities which have hitherto been unrepresented in the collection. The following are the most interesting :—

1. Blue faïence cylinder-seal ; with spiral design.
2. Cylinder-seal ; with two rows of fish.
3. Cylinder-seal ; with two human figures. Gold mounting at each end.
4. Cylinder-seal ; with designs of dots connected by double diagonal lines.
5. Cylinder-seal ; with two human figures, palm trees, etc
6. Plaque ; with Sphinx, uræus, cartouche of Thothmes IV.
7. Scarab ; with cartouche of Thothmes III.
8. Scarab ; with cartouche of Usertsen III.
9. Scarab ; with cartouche of Queen Ti.
10. Scarab ; with cartouche of Thothmes IV.
11. Scarab ; with imitation cartouche, with hawks.
12. Scarab ; with cartouche of Amenhetep III.

13. Scarab; with cartouche of Amenhetep II.
14. Plaque; with cartouche of Amenhetep III. and Queen Ti.
15. Scarab; with cartouche of Nut-Kheper-Ra.
16. Scarab; with cartouche of Thothmes III.
17. Plaque; with cartouche of Amenhetep II.
18. Scarab; with cartouche, uræi, etc.
19. Scarab; with cartouche, hawk, and uræi.
20. Scarab; with cartouche, horse with plumes.
21. Scarab; with cartouche, etc.
22. Scarab; with seated figure and rough signs.
23. Scarab; with two hawks, "gold," and two uræi.
24. Scarab; with two hawks and uræus.
25. Scarab; with four uræi on *neb*-sign.
26. Scarab; with name of royal scribe Ameni, deceased.
27. Scarab; with naked female figure, two branches, etc.
28. Scarab; with lion, uræus, and branch.
29. Scarab; with uncertain inscription.
30. Scarab; with lion, uræus, and ibex.
31. Scarab; with signs of goodness, sovereignty, life, etc.
32. Scarab; with lion and sun.
33. Scarab; with double spiral.
34. Scarab; with Sphinx and uræus.
35. Scarab; of Amenhetep I.
36. Scarab; with hawk, uræi, and crocodile.
37. Scarab; with three annules.
38. Scarab; with crowns, etc.
39. Scarab; with lily-spiral, etc.
40. Scarab; with branch, etc.
41. Scarab.
42. Scarab.
43. Scarab.
44. Scarab; with male figure.
45. Scarab.
46. Scarab; with ibex and uræus.
47. Scarab; with ibex and branch.
48. Scarab; with scarabæus and two uræi.
49. Scarab; with spiral and ânkh.
50. Scarab; with hawk and various signs.
51. Scarab; with papyrus plant, etc.
52. Cowroid; with fish.
53. Scarab; with uncertain signs.
54. Scarab; of Amen-Ra.
55. Scarab; with hawk, etc.
56. Cowroid; with eye.
57. Scarab.
58. Scarab; with four annules.
59. Copper axe-head.
60. Vase; Bügelkanne, red on buff ware.
61. Vase; Amphoriskos; black on buff ware.
62. Vase; Cypriote; pilgrim-flask, red on buff.
63. Shaped Vase; Philistine imitation, two-handled, red on buff.

64. Flask and drinking-cup, combined; Syrian red ware.
65. Large Jug; Cypriote base-ring ware, white on red-black
66. Large Jug; Cypriote base-ring ware, white on black.
67. Cypriote base-ring; Lekythos, black, double-handle.
68. Cypriote base-ring; Lekythos, drab.
69. Cypriote base-ring; Lekythos, drab with white stripes.
70. Cypriote base-ring; Lekythos-flask, black.
71. Cypriote base-ring; Lekythos-flask, red with white lines.
72. Cypriote base-ring; one-handled flask, with long neck, red-black with white lines.
73. Cypriote base-ring; Jug with shaped mouth and collar on neck, red-black.
74. Cypriote base-ring; Bull vase, white stripes on red-black.
75. Jug; drab ware, with red stripe decoration.
76. Jug; with oval body, one handle, and shaped mouth, red ware.
77. Jug; red ware, oval, with shaped mouth and one handle.
78. Jug; red ware, oval, with shaped mouth and one handle.
79. Jug; red ware, oval, with shaped mouth and one handle.
80. Jug; red ware, bag-shaped, with shaped mouth and one handle.
81. Jug; drab ware, with round body and one handle.
82. Jug; red ware, bag-shaped; not made on wheel.
83. Jug; drab ware, with pointed body; not made on wheel.
84. Jug; drab ware, with pointed body; not made on wheel.
85. Amphoriskos; red ware, pointed body; not made on wheel.
86. Vase; red ware, with two handles on shoulders.
87. Vase; red ware, with squat body and one handle.
88. Amphoriskos; drab ware, with traces of black bands: Philistine imitation of Minoan.
89. Strainer-jug; rough red ware, with open spout and one handle.
90. "Champagne-glass" cup; red ware, with hollow foot.
91. "Champagne-glass" cup; red ware, with hollow foot.
92. Bowl; drab ware, with bevelled-edge and cross red stripes.
93. Bowl; drab ware, with bevelled-edge, unpainted.
94. Bowl; drab ware, with bevelled-side.
95. Bowl; drab ware, with bevelled-side and red cross, painted.
96. Bowl; red polished ware.
97. Bowl; drab ware.
98. Bowl; drab ware, with single horizontal handle.
99. Bowl; drab ware, with bevelled-side and single vertical handle.
100. Lamp; drab ware, with red painted lip.
101. Lamp; drab ware plain.

III.—*Presents.*

i.—1. Fragment of predynastic pottery with incised lines. From Mahasnah.

2–3. Two predynastic vases.

4. Fragment of a vase of the 1st dynasty. Found in a kiln.

5. Wax model of the kiln.

6. Clay head of a dog. 1st dynasty.

7. Limestone stele of Herab. VIth dynasty.

8. Portion of inscribed stele. XIIth dynasty.

9. Set of pottery and carnelian beads. XIth—XIIth dynasty.

10. Red ware vase. XIth—XIIth dynasty.

11. Bowl of "pan-grave" style. XIIth dynasty.

12. Vase of polished red pottery. XIIIth dynasty.

13. Necklace of blue "cake" beads.

14. Vase, with hieratic inscription.

15–45. Thirty-one ostraka: 1 hieratic, 19 Demotic, 10 Greek, 1 Coptic.

46–48. Three inscriptions: 1 Demotic, 2 Coptic.

49. Coptic painted vase.

50, 51. Two cartonnage cases for the head and feet of mummies. Roman Period.

Nos. 2–51 from Abydos and Tayyîbah.

Presented by the Egypt Exploration Fund.

ii.—1. Bronze figure of a man.

2. Bronze ring.

3. Agate scaraboid, uninscribed.

4. Glazed *faïence* jar. Cyprian imitation.

All the above are from Cyprus.

Presented by Sir R. H. Hamilton Lang, K.C.M.G.

iii.—1. The right hand of a mummy, on one finger of which is a scarab.

Presented by Lady William Cecil (Baroness Amherst of Hackney).

iv.—1. An inscribed limestone stele of the official Bemba Middle Empire.

Presented by the Right Hon. Russell Rea, P.C., etc.

v.—1, 2. Two terra-cotta vases, with covers.

3. A portion of a statue of a high official called Tetaki. XVIIIth dynasty. From Thebes.

Presented by the Earl of Carnarvon.

vi.—1. A ushabti figure, uninscribed.
Presented by Mrs. John Barnard.

vii.—1-3. Three casts of hieroglyphic texts cut upon statues of the Ancient Empire (A. 36, A. 37, A. 38).
Presented by the Direction du Louvre.

viii.—1. A wooden ushabti figure for Senba. XIIth dynasty.
Presented by Alan Gardiner, Esq.

ix. A very fine blue paste scarab, on the base of which is the prenomen of Hātshepset, Queen of Egypt. About B.C. 1500.
Presented by Jesse Haworth, Esq.

x.—1. Two flakes of obsidian.
2. A celt.
3. Two pieces of painted pottery.
4. Two circular pieces.
5. Two bone needles.
6. Stone for inlaying.
Presented by Col. F. R. Maunsell, R.A., C.M.G.

xi.—1. Two bronze baskets.
2. Two adzes.
3. One balance or yoke.
} Foundation deposits.

Presented by A. T. Loyd, Esq.

E. A. Wallis Budge.

Department of Greek and Roman Antiquities.

I.—*Arrangement.*

The Sculpture Galleries.—The re-arrangement of the Mausoleum Room has been continued; three of the marble lions, the panther, and the ram have been re-mounted; smaller sculpture fragments have been arranged on shelves; architectural fragments from Lycia have been restored and exhibited; and all the sculptures have been covered up during the redecoration of the Room. In the Mausoleum Room Annexe fragments of Roman sarcophagi have been mounted and arranged.

In the Phigaleian Room, the slabs from the frieze of the Temple of Nike Apteros were taken down and combined in correct order with casts of the slabs still at Athens; the frieze was then replaced on the wall. Two casts of newly discovered fragments of the Phigaleian frieze have been fixed in position; and a stone plinth has been provided for the stele of Archagora.

The inscription recording the report of the Erechtheion commissioners has been set up in the Elgin Room near the fragments of the Erechtheion; a relief was mounted in the Third Graeco-Roman Room, a mosaic and several reliefs were fixed in the Graeco-Roman Basement.

A re-arrangement of the Cast Gallery has been made and the new acquisitions placed on exhibition. The unexhibited casts of the Arch of Trajan at Beneventum have been unpacked and stored.

The Vase Rooms and Upper Galleries.—In the First Vase Room a Cretan bath-tub has been mounted and a series of reproductions of Minoan objects have been exhibited. The arrangement of the unexhibited section of the Collections has been continued, registered vases and terra-cottas having been brought up from basement cupboards and distributed between the various rooms. The unexhibited lamps have been arranged in the Fourth Vase Room and a re-arrangement of the same room is in progress, a new standard case having been placed in position.

In the Bronze Room, the head of Hypnos has been mounted on a cast of the torso of the Madrid statue. A number of transferred or unexhibited pieces have been arranged or incorporated.

The publication of Vol. 1., Part II., of the Catalogue of Vases was completed. Progress was made with Part I. of the same volume; the new acquisitions of early fabrics were included and the sectional introductions written to the close of the Mycenæan period. The preparation of Vol. V. of the same Catalogue was continued, the black and red figure sections being revised in manuscript. The Catalogue of Lamps was corrected in proof; progress was made with the second part of Volume IV. of the Greek Inscriptions. The revised Fourth

Edition of the Departmental Guide was published, and a Guide to the Gallery of Casts was completed in manuscript.

Moulds have been made of three slabs and three fragments of the Frieze of the Parthenon ; of a pilaster capital from the Erechtheion ; of the new fragments of the Phigaleian frieze, and of four marble busts. Twenty-one pieces of sculpture were mounted on stone pedestals. Fifty bronzes, 18 terra-cottas, 5 vases, one gold, one wooden and 18 plaster objects were mounted. One thousand one hundred and twenty-six objects were registered, 903 numbered ; 214 labels were written and 53 printed.

The number of visits to the Departmental Library and Students' Room for purposes of research was 755 ; there were 983 other visits to the Staff for enquiry or on departmental business, and 1,879 attendances of students of art and architecture in the Sculpture Galleries.

II.—*Acquisitions.*

I.—*Sculpture in Stone and Marble.*

1. Marble relief of a cloaked horseman, dedicated to Apollo Epekoos by Marcus Salvius Duiscus. Height 13½ inches. From Chios.

2. Marble bust of lady, with headdress of the Flavian period. *Presented by G. W. Duffett, Esq.*

3. Primitive limestone female figure from Syra. Height 25 inches.

II.—*Gems.*

4. Chalcedony scarabæoid in original gold mount ; a bull standing with head lowered. From Syria ; sixth century B.C.

5. Sard intaglio ; a youth attended by a physician in the presence of Asclepios.

6. Sard intaglio ; Artemis of Ephesus between busts of Helios and Selene ; on each side, a Nemesis of Smyrna with bridle and cubit. Compare an alliance coin of Ephesus and Smyrna, *Catalogue of the Coins of Ionia*, pl. XXXVIII., fig. 2.

7. Nicolo intaglio ; Apollo Sauroctonos.

8. Sardonyx intaglio ; Dionysos bearded, with cup and thyrsos.

9. Plasma head in high relief of the Emperor Claudius, laureated. A finely-worked and characteristic portrait. From Constantinople.

10. Lapis lazuli bust of Serapis, a work of a very late epoch. Height 5¼ inches. *Presented by Sir H. H. Howorth, K.C.I.E., through the National Art-Collections Fund.*

III.—*Gold.*

11. Large ear-ring resembling Palmyrene types of the second and third centuries A.D. Length $2\frac{1}{8}$ inches. From the neighbourhood of Aleppo.

12. Circular pendant set with pastes. From Petra.

IV.—*Silver.*

13. Medallion with a repoussé head of Zeus in high relief. Diameter $4\frac{1}{2}$ inches. From Greece.

V.—*Lead.*

14. Votive dish from the Temple of Jupiter Anxur at Terracina. Cp. *Not. d. Scavi*, 1894, p. 108.

VI.—*Bronze.*

15. Statuette of Athena standing with helmet, ægis, and gorgoneion; she holds out a patera in her right hand, and an owl is perched on her right fore-arm; her left hand is raised to hold a spear. Fine Etruscan work of the third century B.C. From Orvieto. Height $2\frac{3}{4}$ inches.

16. Statuette of Aphrodite, wearing the head-dress with feathers of Isis. Height $12\frac{1}{4}$ inches. From Syria. Cp. Roscher, *Lexikon*, II., p. 495.

17. Objects from the Bowyer Collection: (*a*) Female portrait bust of the late second century A.D.; (*b*) Statuette of Eros running with arms raised; (*c*) Statuette of Eros seated, probably astride a dolphin; (*d*) Statuette of Aphrodite loosing her sandal; (*e*) Bust of Serapis; (*f*) Mask of Heracles, fragmentary; (*g*) Decorative leg of a small candelabrum; (*h*) Statuette of Cat, seated; (*i*) Bull's head.

18. Two medallions with lions' heads in relief, rings hanging from the jaws; probably from the panels of a door. Diameter $5\frac{3}{4}$ inches. Found near Aleppo.

19. Two heads of horned sheep, apparently the terminal ornaments of the handles of a situla. From Olynthus.

20. Votive hand holding up a pine-cone; a snake, a lizard, and a tortoise are shown in relief. From Marach (Aleppo).

21. Lantern with chains and wick-lifter, the uprights are in the form of Corinthian pilasters. Height $5\frac{1}{2}$ inches. From Boscoreale.

22. Fragment of a cup with figures in relief of three Erotes variously employed, probably used in repoussé metal working.

23. Bell with external palm leaf fluting; probably of the late Imperial period. Height $5\frac{1}{2}$ inches. Found near Aleppo.

24. Flat dish with heavy moulded rim and side handles. Diameter $7\frac{1}{2}$ inches. From Jerusalem.

25. Large arrowhead, inscribed **ΦΙΛΙΠΠΟ**. Length $2\frac{1}{2}$ in. From Olynthus.

26. Javelin head. Length $4\frac{1}{4}$ in. From Olynthus.

27. Tumbler lock: a heavy bolt held fast in a groove by three pins which are released by pressing the key against three other pins in the bolt. Length of bolt 12 in. From Syria.

28. Three bolts with the original keys to fit the wards. From Syria.

29. Large key, terminating in a lion's head. Length $3\frac{1}{2}$ in. From Rome.

30. Spoon with short curved-up handle. Length $2\frac{3}{4}$ in.

VII.—*Ivory and Bone.*

31. Two circular medallions with busts of female winged figures (Seasons?) holding fruits, decorated with gilding over a purple-ground colour. Diameter 5 in. Third or fourth century A.D. Said to come from Gaza; a similar example from the same find was presented by Sir A. W. Franks in 1878. *Presented by P. A. Irving, Esq.*

32. Tube with eyelet holes for suspension, containing a rolled-up bronze plate; probably an amulet.

33. Whistle.

34. Bone die of elongated rhombohedral form.

VIII.—*Fictile.*

35. Geometric jug; the main band of decoration contains a "prothesis" scene, repeated four times, with mourners between the couches. Such scenes have hitherto only been known on amphoræ, and the present vase appears to be the first example of a transitional stage between these and the jugs of the earlier Geometric period. Unbroken. Height $17\frac{1}{4}$ in.

36. Geometric jug; on neck a design of an armed man leading two horses. From the Lambros Collection. Height $11\frac{1}{2}$ in.

37. Black-figured lekythos; Hermes, Athena, and Perseus in flight after the slaying of Medusa.

38. Red-figured jug of strong period; a Scythian mounted on a mule and another on foot. From Cervetri.

39. A series of twenty-four vases from various sites in Apulia, illustrating the styles of the indigenous tribes of that district, the Messapians, Daunians, and Peucetians.

40. A series of vases and potsherds from Crete, representing the three Early Minoan periods, and sherds of late Kamarais style from Tiryns. *Presented by H. R. Hall, Esq., and E. J. Forsdyke, Esq.*

41. A large series of vases and fragments obtained by exchange from the Greek Government. (*a*) Vases of Cycladic ware; also two marble vessels from Syros (Chalandriane). (*b*) Vases and fragments from Amorgos, Tiryns, Mycenæ, Nauplia, and Attica, mainly of the Mycenæan period. (*c*) Vases and sherds of the Mycenæan and Geometric periods from Argos, excavated at the site known as the Aspis (*see Bulletin de Corespondence*

Hellénique, XXX., p. 5 *ff*). (*d*) A large series of sherds from the Heraion of Argos of all periods from Mycenæan to Hellenistic, the Proto-Corinthian style being most strongly represented. (*e*) Sherds of various prehistoric Thessalian fabrics, and other objects from Dimini and Sesklo. In exchange, a cast of the Elgin Caryatid in white Portland cement was sent to be fixed in position on the Erechtheion, in place of the copy given by Lord Guilford, which had become dilapidated.

42. Vase in the form of a shoe. *Presented by Sir C. Hercules Read.*

43. Clay inkpot; acquired from Rome.

IX.—*Terra-cotta.*

44. Votive relief of Aphrodite. From Carthage.

45. Four female busts of the Roman period. From Carthage.

46. A series of female heads broken from votive reliefs; in one case the whole relief is preserved, showing a draped half-figure clasping a fawn. Fifth century B.C. From Olynthus. *Presented by Mr. M. Ritsos.*

47. Dog's head. *Presented by F. W. Hasluck, Esq.*

48. (*a*) Statuettes and fragments of primitive style from the Aspis and Heraion sites at Argos and from Dimini. (*b*) Statuettes of draped females and horsemen of Geometric style. From Tanagra. (*c*) Draped female statuettes of fifth century types. From Corfu. (*d*) Statuettes of various types, male, female, and animal. From the Cabeirion, Thebes. *Acquired by exchange from the Greek Government with the pottery series No.* 41.

X.—*Plaster.*

49. Casts of objects in the Museum of Candia: (*a*) Twenty-eight objects from the snake-goddess shrine at Knossos. (*b*) Bull's head. From the smaller palace of Knossos. (*c*) Terra-cotta group of ritual dance. From Palaikastro. (*d*) Two stone lamps. (*e*) Four bronze pedestals.

50. Casts of sculpture fragments found during the repairs to the Temple of Apollo Epicourios, Phigalia, in 1902. These included the missing part of slab 536. *Presented by the Greek Government.*

51. Casts of sculptures in the National Museum, Athens: (*a*) Two early female statues from the Acropolis. (*b*) Head of youth from the Acropolis. (*c*) Nike of Archermos. (*d*) Apollo Ptoos. (*e*) Relief of Mourning Athena. (*f*) Relief of case of surgical instruments.

52. Casts from the Louvre: (*a*) Archaic male statue, by Polymedes, from Delphi. (*b*) Metope of the Dioscuri from the Treasury of Sicyon, Delphi. (*c*) South frieze of the Treasury of the Cnidians (?), Delphi. (*d*) Part of the north frieze of the same building. (*e*) Metope of Athena and Theseus from the

Treasury of the Athenians, Delphi. (*f*) Head of the Agias, Delphi. (*g*) The Delos Diadumenos. (*h*) The Piombino Apollo. (*i*) Votive relief to the Dioscuri from Larissa. (*k*) The "Gemma Augustea" of Vienna.

53. Casts from Berlin: (*a*) The Herm of Alcamenes. (*b*) The Chrysapha grave-relief. (*c*) Attic washermen relief. (*d*) Two fragments of egg-and-tongue moulding from Priene. (*e*) Relief of the birth of Erichthonios. (*f*) Gryphon's head from Olympia. (*g*) Relief of Heracles and Prometheus from Olympia. (*h*) Inscribed spear-head. (*i*) Inscribed plate with treaty.

54. Cast of the ideal head at Holkham Hall (Michaelis, No. 37). *Presented by Sir C. Waldstein.*

55. Cast of a fragment of Aretine pottery at Tübingen. *Obtained by exchange with the Archæological Institute of Tübingen.*

A. H. Smith.

Department of British and Mediæval Antiquities and Ethnography.

1.—*Arrangement, Cataloguing, etc.*

Prehistoric Saloon.—The exhibition of Stone Age specimens in drawers accessible to the public has been continued, and another desk-case added and refitted for temporary exhibitions.

Romano-British Section. — The collection exhibited in drawers accessible to the public has been periodically overhauled, and the pier-cases and clock-case at the head of the staircase cleaned inside.

Anglo-Saxon Room.—Series of flint implements have been stored in the drawers.

Gold Ornament Room.—The finger-ring collections have been finally arranged and numbered in accordance with the published catalogue.

Glass and Ceramic Gallery.—Specimens of pottery from the Near East have been mounted on boards and exhibited in drawers accessible to the public.

Gallery of Religions.—The Buddhist section has been refitted on the north side after structural alterations, and the exhibits have been partly replaced. Many of the Indian sculptures have been cleaned and a large number of labels prepared and placed in the Hindu section.

Asiatic Saloon.—Further progress has been made with the permanent labelling of the Chinese porcelain, and three large cases of porcelain have been cleaned.

Ethnographical Gallery.—The collections from the Nile, North-east Congo, Uganda, East and South Africa, have been cleaned and re-arranged in wall-cases, and the Hollis and Routledge Collections from East Africa exhibited and labelled. Space has been secured for the late Captain Speedy's collection from Abyssinia and the Macleod Collection from West Africa exhibited in three wall-cases. Objects over the African wall-cases have been re-arranged, and the following sections overhauled and re-arranged :—Tonga, Samoa, New Zealand, Micronesia, Borneo, Nicobar, Tibet and North Asia. Two cases of Japanese armour have also been examined and cleaned.

American Room.—The Central and South American series have been considerably re-arranged and a large number of labels prepared. Exhibition drawers have been fitted and a collection of Peruvian pottery exhibited.

Registration.—The registration of current acquisitions has been continued, and 1,012 objects have been added, including ethnographical specimens. Numbers have been painted on 3,128 specimens and 1,523 permanent labels written. Photographs to the number of 275 have been prepared in the Department for purposes of illustration and reference, and 22 impressions

of blocks taken. Typewritten labels to the number of 855 have been cut and bordered, and 49 labels printed on the hand-press; 147 boards papered, and 2,478 objects mounted on them. There have been prepared 623 trays, plinths, stands, tablets, frames, and separate fittings.

The Easter Island sculptures under the portico have been moved and cleaned, and moulds for making plaster casts of specimens listed for publication. Part of the Witt Collection has been cleaned and re-arranged, and the classical specimens of the Museum collection transferred to the Department of Greek and Roman Antiquities. Two Roman mosaic pavements found at Hemsworth, Dorset, have been restored and affixed to the wall on the north-east staircase.

Excavations were conducted in conjunction with H.M. Geological Survey at Swanscombe, Kent, on 23 days between March 18th and July 1st, and a collection inspected at Rayleigh, Essex. The Dublin meeting of the Museums Association was attended in July.

Publications.—The Catalogue of Mediæval Finger-rings was published in March, and a Guide to the American Antiquities in May. Current additions have been made to the slip catalogue of Oriental pottery and porcelain, and a catalogue of Renaissance and later gems begun.

Students. — Three thousand six hundred and forty-six students and visitors have been received in the Department. Two demonstrations have been given in the Prehistoric Room by a member of the staff.

2. *Acquisitions.*

(1.) *Prehistoric and Early British Antiquities:*—

Flint implements of various forms from gravel at Kennet, near Newmarket. *Presented by C. R. Jennings, Esq.*

Two flint implements from the cemetery, Welwyn, Herts, and a series of small white flints from the surface, Windmill Hill, Wilts. *Presented by the Rev. H. G. O. Kendall.*

A battered flint of unusual size from a gravel pit at Biddenham, Beds. *Presented by H. S. Calverly, Esq.*

Flint with natural perforation, resembling a hammer, from the beach at Southsea Castle, and an implement from the clay-with-flints on Hinton Hill, Hants. *Presented by Col. Jamieson.*

Flint implement with ivory patina from Shortheath, Farnham, Surrey. *Presented by Henry Bury, Esq.*

Two flint implements from the site of a palæolithic rock-shelter at Oldbury, near Ightham, Kent. *Presented by B. Harrison, Esq.*

Flint tool of segmental form from Southfleet chalk-pit, Northfleet, Kent, found by the donor and described in *Archæologia*, LXIII, 131. *Presented by Henry Dewey, Esq.*

Tortoise-shaped core from Southfleet chalk-pit, Northfleet, of the type described in *Archæologia*, LXII, 522.

Flint flake found 60–70 feet deep in the Thames bed at Tilbury Dock, 1883. *Presented by the Royal College of Surgeons.*

Series of a new type of flint implements found by the donor at Laverstock, near Salisbury. *Presented by Dr. Blackmore.*

Two basalt celts from Ireland, probably Co. Antrim. *Presented by Mrs. Douglas Taylor.*

Late Keltic clasp of bronze from Lakenheath, Suffolk.

Three palæolithic implements from Rafaat, Palestine, and one from Lellina near Gibraltar. *Presented by H. E. Clark, Esq.*

Pottery bowls and fragments of other vessels from a cave in the Ronda Mountains, S. Spain. *Presented by Col. Willoughby Verner.*

Series of white flint implements from the surface at Cape Ancora, Isle of Rügen.

Ten flint implements from a workshop at Girolles, Loiret, France, and stone celts from Cochin China. *Presented by Dr. Capitan.*

(2.) *Romano-British :—*

Gold necklace with settings and pendants, two gold bracelets and finger-ring set with garnet, from a child's coffin (which is already in the Museum) found at Southfleet, Kent, 1801, and described in *Archæologia*, XIV, pl. VIII, p. 38.

Series of cinerary urns and accompanying "Samian" dishes found during excavations at Hoo Ness on the Medway, 1912. *Presented by the Lords of the Admiralty.*

Cinerary urn and bronze brooches from Old Newton, Suffolk, and other sites, collected by the late Dr. Low, of Stowmarket.

Cinerary urn found with others at Twickenham, Middlesex. *Presented by Sir C. Hercules Read, P.S.A.*

Specimen of cloth from a well within Roman walls at Huntcliffe, near Saltburn, Yorks. *Presented by Messrs. Stanton and Hornsby.*

Seven casts of Roman sculptures found in Britain.

(3.) *Anglo-Saxon and Foreign Teutonic :—*

Long brooch and pair of clasps found with beads at Hoxne, Suffolk.

Gold circular ornament set with garnets, iron sword and shield-boss, and pottery vase from a burial at Twickenham, Middlesex. Described in *Proceedings of the Society of Antiquaries*, XXIV. *Presented by Sir C. Hercules Read, P.S.A.*

Viking sword, scramasax, scythes and axe-heads found together in a stream near Harbuck, Lanchester, Durham, and described in *Archæologia Æliana*, V, 159.

Gold finger-ring with conical bezel and seven pellets, Frankish period, found in Samos (*Catalogue of Finger-rings*, No. 176).

Series of silver ornaments, part of a hoard found near Kanief, South Russia, 1911, of the Gothic period.

(4.) *Mediæval and Later :—*

(a.) *British* —Apprentice's woollen cap of the Tudor period. *Presented by B. T. Harland, Esq.*

Brass gunner's level, signed H. Cole, 1575.

Bronze-gilt case of mathematical instruments richly chased with **PAX ORBI EXOPTATISSIMA** engraved on the lock-plate, and signed *Barthelmewe Newsum :* made probably for Queen Elizabeth. An unusually elaborate example of contemporary work. Described in *Archæologia*, LV, 531. *Bequeathed by Max Rosenheim, Esq., F.S.A.*

Tapestry panel with biblical scenes, dated 1632, formerly at Brandeston Hall, Suffolk. *Bequeathed by Mrs. Arabella Revett.*

Brass quadrant with date, 1644, and signature, *Abraham Watlington fecit.*

Five pieces of enamelled jewellery, late 17th century.

Gold watch in ornamented case, Arabic and Roman figures on dial, signed *G. Graham, London :* made about 1720.

Leather case with mirror and writing materials, 18th century. *Presented by Miss Bird.*

Shield of arms in paper filigree, 18th century. *Presented by Miss D. H. Morris.*

Bronze steelyard from Galway. *Presented by Dr. T. B. Costello.*

Steel matrices of 30 obsolete seals of British dependencies. *Presented by the Lord President of the Council.*

(b.) *Foreign.*—Gold pendent cross set with stones and enamelled : 11th or 12th century.

Brass basin with embossed design of Adam and Eve : Nuremberg work, 15th century. *Presented by Dr. Hildburgh.*

Chalcedony cameo, head of a lady with draped head-dress, 15th century ; from the Boy Collection.

Four wooden draughtsmen with busts of Julius, Duke of Brunswick, Rudolph II., and titles of the Emperor Charles V. *Presented by A. W. F. Fuller, Esq.*

Lid of patch-box enamelled on copper with shell designs and emblems, 18th century. *Presented by Miss Bird.*

(5.) *Ceramic and Glass Collections :—*

(a.) *Oriental Wares.*—Stoneware jars and pillows of T'zu Chow ware : pottery vases and ewer, standing figure and horseman of the T'ang dynasty, and a hill-censer, brick and flask of the Han dynasty. *Presented by Wm. C. Alexander, Esq.*

Chinese costrel of the Han dynasty and jar with dragons in relief, of the Ming dynasty. *Presented by J. S. T. Audley, Esq.*

Ewer with bronze coloured glaze, Chinese, T'ang dynasty.

Stoneware ewer of the T'ang dynasty. *Presented by R. L. Hobson, Esq.*

Early Chinese figure of a horse with thick white glaze.

A series of pottery vessels and figures from graves in Honan province, including the complete furniture of graves dating from the Han and T'ang dynasties.

A toy horse. *Presented by S. C. Bosch Reitz, Esq.*

Chinese porcelain wine-pot with mark of Hsuan Te period (1426–1435). *Presented by Sir C. Hercules Read, P.S.A.*

Unglazed porcelain dish with K'ang Hsi mark in blue (1662–1722). *Presented by G. T. Veitch, Esq.*

Porcelain ink-slab, dated 1692.

Pair of porcelain vases with covers: Chinese, of late 18th century. *Presented by Henry Wallis, Esq.*

Porcelain tray of Nabeshima ware and pottery figure of a man with fly-whisk: two stoneware teapots with the Banko mark, and glazed saké kettle. *Presented by R. Phené Spiers, Esq.*

Pottery urn with four handles, jug with blue glaze, basin and two bowls, Persian, 13th century.

Pottery bowl glazed with lattice pattern in blue, Persian, 13th century. *Presented by MM. Kalebdjian Frères.*

Amphora with turquoise glaze from Rakka Upper Euphrates.

Two pottery fragments with applied arabesques, found at Nisibin, Mesopotamia. *Presented by Miss Gertrude Bell.*

Glazed openwork tile of cruciform pattern, Persian, 15th century. *Presented by Sir C. Hercules Read, P.S.A.*

Seven fragments of early mediæval Persian ware. *Presented by M. C. Tabbagh.*

A valuable series of Persian glazed pottery, dating from the 10th to the 15th century. *Presented by Henry Van den Bergh, Esq., through the National Art-Collections Fund.*

Two jugs with stamped designs found in the Diamir Nullah, Chilas, Kashmir. *Presented by Captain R. A. Yule, I.A.*

Five glazed fragments from Mombasa, East Africa, probably imported. *Presented by Dr. C. G. Seligmann.*

(b.) *Continental.*—Part of a glazed dish, Italian, dated 1301. *Presented by Baron de Cosson.*

Maiolica tondino of Faenza ware, late 15th century, and a Valencian tile with a bull in foliage. *Presented by M. Stora.*

Glazed dish-cover with relief decoration, probably Italian 18th century, found on the site of the Old Bell Brewery, High Road, Tottenham, 1896. *Presented by H. Langton, Esq.*

(c.) *English.*—Four Staffordshire tiles with marbled glaze. *Presented by T. Charbonnier, Esq.*

Four similar tiles. *Presented by Sir C. Hercules Read, P.S.A.*

Figure of a pig with brown glaze, Sussex ware, 18th century. *Presented by William C. Alexander, Esq.*

Delft plate with decoration in Chinese style.

Mug with mottled brown glaze and standard-mark of Queen Anne. *Presented by Sir C. Hercules Read, P.S.A.*

Delft plate with bust of Queen Charlotte. *Presented by Dr. Edgar Willett.*

Marked specimens of ware by Hillcock and Walton, Toft and May, and W. Suckers. *Presented by T. Jesson, Esq.*

Worcester cup and saucer, delft plate with mark, and vase of marbled ware. *Presented by Miss Bird.*

(d.) *Glass.*—Series of jugs and bottles and bowls of the Roman period and two Greek phials from Cyprus. *Presented by the Viscountess Wolseley.*

Rhyton and two tubes of the Roman period, from Syria. *Presented by C. H. Nevill, Esq.*

Two cinerary urns, jug and phial from Roman burial ground, Old Newton, Suffolk, collected by the late Dr. C. W. Low.

Piece of a beaker, enamelled in colours, Arab, 14th century. *Presented by MM. Kalebdjian Frères.*

Beaker with three rows of prunts, 16th century, inscribed in Dutch, *They, our ancestors, prepared this beaker more than one hundred years back*, 1648.

Three cameos, with head of Roman emperor, a bird in cloisonné, and eagle in gold.

Opal medallion of Louis XVI. and Marie Antoinette, by Tassie. *Presented by H. J. Ellis, Esq.*

Wine bottle of the 18th century found at Hoo Ness on the Medway. *Presented by the Lords of the Admiralty.*

(6.) *Collection illustrating various Religions:*—

(a.) *Christianity.*—Bronze figure of a cow with cross engraved between the horns, and Greek inscription on both flanks, from Angora, Asia Minor.

Byzantine bronze censer with biblical scenes in relief.

Coptic capital and portions of two friezes from Shurifah, South of Helouan. *Presented by the British School of Archæology in Egypt.*

(b.) *Hinduism.*—Six bronze and brass figures of deities. *Presented by M. A. Fenton, Esq.*

(c.) *Buddhism.*—Five gilt wooden figures taken from a captured junk in 1876. *Presented by Mrs. Harvey.*

A clay seal with Buddhist formulæ. *Presented by the Misses Lay*

A wooden figure from Burma.

Two Gandhara sculptures, one, of unusually good and delicate workmanship, illustrating the story of King Sivi (*see Man*, 1913—11.)

(d.) *Yezidi.*—Steel figure of a peacock engraved and inlaid with silver; Persian work. Said to have come from a Yezidi temple at Bahadia, near Diarbekr, Kurdistan. *Presented by Imre Schwaiger, Esq., through the National Art-Collections Fund.*

(7.) *Oriental and Ethnographical:—*

Asia.—Hemispherical silver bowl with hunting scene in relief; king and courtiers pursuing lions, tigers, boars and ibex; inscription in Brahmi characters. Found in the Swat Valley, North West India, and illustrated in *Archæologia*, LXIII. 251. Sassanian work of 4th to 5th century A.D. *Presented by Max Bonn, Esq., through the National Art-Collections Fund.*

Two Chinese composite pictures, made chiefly of kingfisher feathers, said to have come from the Summer Palace. *Presented by Andrew Burman, Esq.*

Stone seal engraved with the figure of an ox and unknown characters, from Harapa, Punjab. *Presented by M. Longworth Dames, Esq.*

An inscribed seal from Harapa, Punjab. *Presented by J. Harvey, Esq.*

Copper plate engraved in Nagari characters with a grant of land by Maharaja Pratap Singh, Samvat, 1845 (A.D. 1788); and a small copper plate in Modi characters. *Presented by Mrs. Stewart.*

Box with engraved inscription in archaic Chinese characters. *Presented by G. Eumorfopoulos, Esq.*

Small bronze jar inlaid with silver cloud-pattern, Sung dynasty. *Presented by S. W. Littlejohn, Esq.*

Chinese bronze kettle, probably Sung period.

Large bronze dish, probably of the Han dynasty.

Goa-stone in gold filigree case, brought from India by Sir Hugh Inglis in 1775. *Presented, in memory of Sir Robert Harry Inglis, formerly a Trustee of the British Museum, by Miss Laura Mary Forster.*

Specimens of clothing from Chitral. *Presented by the Hon. Lady Gatacre.*

Iron shield and shell ornaments from the Raipur District, Central Provinces, India. *Presented by Sir John Miller.*

A series of *kris* from the Malay Archipelago. *Presented by Mrs. Speedy.*

Sixteen *netsuké*, one carving, two *tsuba*, two swords, a war-fan, a lacquer casket containing the perfume game and a lacquer coffer inlaid. *Presented by Mrs. H. Seymour Trower.*

Carbuncle engraved with a head and an inscription, Gupta period; in a modern gold setting.

Combined gun and sword, Shan States.

Africa.—A large and important ethnographical series from Abyssinia, including the gold signet ring and silver drinking cup of King Theodore, a book of the Psalms belonging to his queen, and the necklace of Prince Alamayu. This series was collected by the late Captain T. C. S. Speedy. *Presented by Mrs. Speedy.*

A Karamojo head-dress, three Turkana clubs and two Turkana pillows, Uganda Protectorate. *Presented by Major R. C. Bright.*

A large drum, formerly belonging to Mwanga, King of Uganda. *Presented by Mrs. Austen Chamberlain.*

A series of ethnographical objects from the East Africa Protectorate.

Three ancient iron implements found in the earth near Maiduguri, Bornu. *Presented by the Chief Secretary, Northern Nigeria.*

A leaf cover from the Surra Pagans, Bauchi, Northern Nigeria. *Presented by J. McF. Pallard, Esq.*

A wooden figure from Northern Nigeria. *Presented by Mrs. Scott.*

Two standards, a suit of quilted armour and other objects from the Dervishes of the Eastern Sudan. *Presented by the Hon. Lady Gatacre.*

A series of stone implements from the terraces of the Monapo River, South East Africa, and three quartz specimens from Egypt. *Presented by E. J. Wayland, Esq.*

Oceania.—An ethnographical series, including objects from the Solomon Islands, Santa Cruz, Torres Island, Banks Island and the New Hebrides. *Presented by the Venerable Archdeacon Comins.*

Plaster cast of an unusually large stone adze found at Horowhenua, New Zealand. *Presented by A. Hamilton, Esq.*

A fine series of Maori stone implements selected from the "White Collection" formed by the late Mr. Struan Robertson.

An ethnographical series from British New Guinea. *Presented by Dr. G. Landtman.*

An ethnographical series from Dutch New Guinea, including objects from the pygmy tribes, collected by the British Ornithological Expedition.

A series of stone flakes and implements from Millstream Station, N.W. Australia. *Presented by R. S. Newall, Esq.*

A necklace of whale-ivory beads from Tonga.

America.—An old and large Zuñi vase. *Presented by W. Crewdson, Esq., F.S.A.*

A series of stone *bolas* and arrowheads from the north shore of the Magellan Straits. *Presented by Kenneth Young, Esq.*

A fine series of 34 ancient polychrome vases from Nasca, Peru. These vases represent a class of pottery only recently discovered, and belonging to an early period of pre-Inca culture.

A series of 20 ancient vases from Yca, Peru, painted in the style characteristic of that valley.

A collection of pottery vases and burial urns from the ancient Diaguite tribes of N.W. Argentina: many of these are in human form and most are painted with characteristic designs.

A series of baskets from British Guiana, collected from the technological point of view by Dr. W. E. Roth.

A series of ancient pottery from Ecuador.

Christy Collection.

During the year the Trustees have acquired by donation the following objects, which have been transferred to the Trustees of the British Museum:—

(1.) *Ethnography of Europe:—*

A wooden whip-handle mounted in metal, from Bacska, Hungary. *Presented by E. Torday, Esq.*

(2.) *Ethnography of Africa:—*

A feather tippet and head-dress from Matabeleland. *Presented by the Rev. A. M. Cazalet.*

A wooden parrying shield from the WaGiriama, East Africa. *Presented by Miss F. I. Deed.*

Nine stone implements from Windsorton, Vaal River, South Africa. *Presented by J. A. le Doux, Esq.*

Somali basket, two Sudanese javelins, East African bow and West African decorated gourd. *Presented by A. W. F. Fuller, Esq.*

Seven stone implements from Bauchi, West Africa. *Presented by L. J. Harris, Esq.*

Two girdle pendants and a lip-ornament from the Kagoro, Northern Nigeria. *Presented by Major A. J. N. Tremearne.*

Six stone axe-blades from Jos and one from Shen, Bauchi, Northern Nigeria. *Presented by A. S. Williams, Esq.*

Two wooden figures from the Lower Congo. *Presented by L. J. Lyon, Esq.*

A wooden figure from Mendiland. *Presented by M. Shattock, Esq.*

A hide shield from the Azbin Tuareg from near Sokoto. *Presented by G. F. Tomlinson, Esq.*

(3.) *Ethnography of Asia :—*

An ethnographical series from British North Borneo. *Presented by I. H. Evans, Esq.*

A pottery water jar from Tagaung, Upper Burma. *Presented by R. M. R. Robinson, Esq.*

A Chinese magnetic compass. *Presented by Maurice Rosenheim, Esq.*

(4.) *Ethnography of Oceania :—*

A wooden *meré, waha-ika*-type, from New Zealand. *Presented by Miss Bird.*

Fragments of prehistoric pottery from Murin, British New Guinea. *Presented by A. K. Chignell, Esq.*

Two woven bags from Santa Cruz. *Presented by A. W. F. Fuller, Esq.*

Ethnographical objects from New Britain, St. Matthias Island and Bougainville Island, Melanesia. *Presented by the Rev. W. Fuller.*

Two pieces of painted tapa from Aitutaki. *Presented by E. Gruning, Esq.*

A stone adze and a specimen of bark-cloth from Fiji. *Given by W. J. Simpson Ladell, Esq.*

A paddle, club and spear from Oceania. *Presented by S. G. Perceval, Esq.*

A stone axe from Awhitu, New Zealand. *Presented by C. Saunders, Esq.*

(5.) *Antiquities and Ethnography of America :—*

Two pottery vases from the Zuñi Indians of North America. *Presented by Dr. F. Corner.*

A basket ornamented with quail-feathers, from the Tulare, and a basket from the Paiute, North America. *Presented by W. Crewdson, Esq.*

Two bows and arrows from British Guiana, two ancient decorated gourds from Peru and a pottery vase from Arizona. *Presented by A. W. F. Fuller, Esq.*

A series of embroidered neck-bands from La Paz, Bolivia. *Presented by A. W. Hill, Esq.*

A copy of "Some Aboriginal Sites on the Red River." *Presented by the author, Clarence B. Moore, Esq.*

A seal-hide line, a harpoon-head, a stone knife and other objects from graves between Iquique and River Loa, Chile. *Presented by Miss M. Turner.*

Three stone axe-blades from the John Crow Mountains, Jamaica. *Presented by L. W. Wilmer, Esq.*

Two stone axes from Jamaica. *Presented by S. G. Perceval, Esq.*

C. Hercules Read.

Department of Coins and Medals.

I.—*Registration and Arrangement.*

1. *Greek Series:—*

Three hundred and seventy-five coins of various parts of the Greek world, recently acquired, have been registered and 362 incorporated, while 752 coins previously set aside as duplicates have been re-incorporated.

The coinage of Lysimachus and of Macedon from Philip III. (Arrhidæus) down to its cessation under the Romans has been arranged, fresh heading cards inserted and fresh labels written for the cabinets. Fresh heading cards have also been written for the Bruttian, Campanian, Corinthian, Cypriote, Aeginetic and Ptolemaic series, while a concordance of the coins described in the Catalogue of Corinth has also been drawn up to indicate their present position in the trays. Reference tickets to the coins described in the Catalogue of Phœnicia have been written and placed beneath the coins, and references to the most recent publications have been provided in the same way for several of the autonomous series of Thrace.

Two hundred and seventy-seven casts have been incorporated in the collection of Casts and Electrotypes of coins not in the British Museum and this addition has necessitated the inclusion of another cabinet. A beginning has also been made with the rearrangement of the collection of sulphur casts.

The following collections have been examined with a view to making selections either for presentation or purchase:—(*a*) a portion of the celebrated Damanhur (Egypt) find of tetradrachms of Alexander the Great; (*b*) a series of Cypriote and other Greek coins; (*c*) a collection of coins from the Eastern part of the Greek world; and (*d*) various Sale Catalogues, British and Continental.

A fresh selection of coins is being made with a view to enlarging the Exhibition of Electrotypes.

The MS. Bibliography of Numismatics has been brought up to date, and progress has been made with the Card Index of Coins arranged according to types, while an index of the city names on Greek coins, arranged according to terminals to assist in identification, is nearing completion.

2. *Roman and Byzantine Series:—*

Five hundred and seventy-eight coins, Republican and Imperial, have been registered and 568 incorporated. The coins formerly set aside as duplicates have been examined, and 14 incorporated, while a large number have been arranged and put aside for further study.

A close study is being made of the issues of the Early Empire. The coins of Augustus, Tiberius, Caligula and Claudius have been weighed, rearranged, and transferred to more

convenient cabinets, and new heading cards have been written for the silver coins as far as the middle of the 3rd century. The series issued at Antioch and Nicomedia during the Constantinian period have been examined and several corrections made in their arrangement.

Reference tickets to the Catalogue of the Coins of the Empire of Trebizond and of the Roman Republic have been written and placed beneath the coins, and in the case of the latter, cross references from the silver to the gold coins have been inserted in the trays.

A series of sulphur casts of coins not in the British Museum has been sorted and arranged.

Two very important finds of gold coins from Corbridge have been examined, as well as others from El Centenillo (Spain), Anglesey, Hengistbury Head, Hambledon (Bucks), and a Roman camp near Saltburn, while selections have been made from a dealer's stock of Roman silver coins from Augustus to Commodus, and of Roman bronze from Augustus to Marcus Aurelius. A selection of coins for electrotyping is in progress with a view to forming an exhibition of representations of Roman buildings.

The general Bibliography of Roman Numismatics has been brought up to date, while a special Bibliography for the Imperial period has been undertaken, and a beginning has been made with a Card Index of Imperial coins classified according to types.

3. *British and Colonial Series*:—

Two hundred and sixty-three coins and 41 medals have been registered, and 233 coins and 41 medals incorporated, while five coins previously separated as duplicates have been put back into the collection. Six hundred and seventy-seven casts of coins not in the British Museum have been incorporated in the collection of casts.

The issues of the kings from William I. to Stephen have been classified under types, and the coins of Henry III. rearranged. The coins of the English kings from William I. to Stephen in the British Museum have been compared with the examples in many private collections and notes taken as to moneyers, mints, etc. In the Colonial series corrections have been made in connexion with the classification of countermarked coins.

A find of long-cross pennies of Henry III. from Steppingley (Beds) has been examined, and coins found during the excavations at Hengistbury Head have been cleaned and classified.

Selections have been made from two dealers' stocks of the coins of Henry III. and Stephen, and also from a collection of seventeenth century Tokens, while various sale catalogues have been examined. The portion of the Mellendean (Roxburgh) find, consisting of pennies of Edward I. and of Alexander III. and John Baliol of Scotland, and also of deniers esterlins

of the Low Countries, which was not required by the Society of Antiquaries of Scotland, has been classified and a selection made.

4. *Mediæval and Modern Series:—*

In this division 80 coins and 84 medals recently acquired have been registered and 87 coins and 84 medals incorporated, while 61 coins and counters formerly regarded as duplicates have been reincorporated.

The rearrangement of the series of Nuremberg Counters, which has been expanded into another cabinet, has been undertaken, and the collation of the proof sheets of H.M. the King of Italy's Corpus of Italian Coins with the British Museum collection has been continued.

A small mediæval collection has been examined and identified, while selections for presentation or purchase have been made from a small series of Hungarian mediæval coins, of modern European medals, and of medals dealing with Peace, and from a large miscellaneous collection of coins and tokens. A Card Index of Personal Medals after 1600 is in progress.

5. *Oriental Series:—*

One thousand two hundred and five coins have been registered and incorporated, while 150 duplicates, mainly from the Indo-Scythic series, have been examined.

The Samanid and Moghul series have been rearranged under mints and supplied with additional heading cards, while the issues of the Sikh and Dogra Kingdoms of Kashmir, of the Shahs of Persia and of Afghanistan, have been expanded, and new heading cards inserted.

The coins of the Moghuls, Babar. Humayun and Akbar, from the Bleazby Collection presented by Mr. Henry Van den Bergh, have been incorporated in the general collection.

The Stein Collection has been identified and arranged with written slips in three cabinets and a selection made to illustrate Sir M. Aurel Stein's report.

The duplicates from the Bleazby Collection have been roughly classified, packed and despatched for their owner.

Several collections of Chinese and other oriental coins offered for purchase or presentation have been examined and selections made.

A selection of electrotypes of Bactrian coins has been made for the Punjaub Museum.

6. *General Arrangement:—*

The cabinets containing the collection have been numbered throughout, and a summary inventory indicating their places and contents has been prepared.

II.—*Catalogues.*

1. Catalogues of Greek Coins.

Coins of Palestine (Galilæa, Samaritis, and Judæa), by G. F. Hill.

The arrangement, weighing and description of the coins for this volume have been completed; the records of the provenance of the coins have been verified; the historical introduction has been completed and typewritten: an epigraphic table has been drawn, and a selection of forms made for a fount of type; a sketch map has been made, and casts for 42 plates mounted, and references to these plates inserted in the text. The volume is now ready to be placed in the printer's hands.

Coins of Cyrenaica, by E. S. G. Robinson.

The study and arrangement of the coins and the special bibliographical work for this volume have been begun.

2. Catalogue of Roman Coins.

Coins of the Early Roman Empire, by H. Mattingly.

The study and arrangement of the coins and the special bibliographical work for this volume have been begun.

3. Catalogue of English Coins.

Coins of the Norman Kings, by G. C. Brooke.

The arrangement, weighing and descriptions of the coins of Henry I. and Stephen have been completed: the descriptions of the coins of William I. and William II. have been revised; the order of the types of these two kings has been corrected by the evidence of overstruck coins and of the forms of letters; tables illustrating the epigraphy, mints, moneyers and finds have been prepared; the coins of the period in six public and five private collections have been examined; over 500 casts have been made from specimens therein contained, compared with the British Museum Collection, and incorporated in the series of casts; and selections have been made for the illustration of the catalogue.

4. Catalogue of Oriental Coins.

Coins of the Guptas, by J. Allan.

The descriptions of the coins of this series have been revised, and references to the plates inserted in the text; 24 plates have been mounted; the greater part of the Introduction has been written; the metres of most of the fragmentary inscriptions have been identified, rendering it possible for the first time to supply the correct vowels and restore the readings; an epigraphic table, drawings for a fount, and a list of monograms and symbols have been prepared; two important collections of Gupta coins have been examined; the plates, drawings for type and symbols, and the text have been sent to the printers.

III.—*Acquisitions.*

The total number of coins and medals added to the Department during the year 1912 was 2,260, of which 270 are of gold, 1,327 of silver, 636 of bronze, and 27 of other metals.

The following table shows the numbers of the new acquisitions, classified according to the several series to which they belong:—

Class.	Gold.	Silver.	Bronze.	Other Metals, etc.	Total.
Greek	7	278	123	2	410
Roman	215	349	28	1	593
British and Colonial	15	191	46	2	254
Mediæval and Modern	4	100	73	20	197
Oriental	29	409	366	2	806
Total	270	1,327	636	27	2,260

Of the above, 674 have been presented, viz., 9 of gold, 373 of silver, 268 of bronze, and 24 of other metals.

The following is a list of benefactors to the Department of Coins and Medals during the past year:—

His Majesty Victor Emmanuel III., King of Italy; the Bombay Branch of the Royal Asiatic Society; the Deputy Master of the Mint; the Egypt Exploration Fund; the National Art-Collections Fund; the India Office, through the Earl of Crewe; the Thakur of Piploda; John Allan, Esq.; H. F. Amedroz, Esq.; the Rev. Gerard W. Bancks; J. T. Bennett-Poë, Esq.; Monsieur L. Bouvat; Frank Bowcher, Esq.; P. W. P. Carlyon-Britton, Esq.; J. Thacher Clarke, Esq.; Mrs. Cripps; O. M. Dalton, Esq.; R. Dalton, Esq.; Colonel H. E. Deane; Monsieur A. Dieudonné; Evelyn Grant Duff, Esq., C.M.G.; Messrs. L. Duval and L. Janvier; Miss Edwards; Alexander Farkas, Esq.; Miss Helen Farquhar; Professor E. A. Gardner; the Hon. Lady Gatacre; Señor João Gomes-do Rego; H. A. Grueber, Esq.; H. P. Hall, Esq.; J. Harvey, Esq.; F. W. Hasluck, Esq.; Professor W. H. Heckler; Kristian Hellstrom, Esq.; Miss Rose Beresford Herbert; Gray Hill, Esq.; Miss M. Iremonger; Sir R. Hamilton Lang, K.C.M.G.; L. A. Lawrence, Esq.; the Misses Rosamond and Caroline Layard; Colonel H. P. P. Leigh; C. E. Low, Esq., C.I.E.; George Macdonald, Esq.; Lieut.-Colonel Sir A. Henry McMahon, G.C.V.O., K.C.I.E.; Murray Marks, Esq.; R. W. McLachlan, Esq.; J. Grafton Milne, Esq.; Ellis H. Minns, Esq.; G. Morley, Esq.; E. T. Newell, Esq.; Señor Felix F. Outes; W. Sharp Ogden, Esq.; Professor C. Oman; R. A. Peddie, Esq.; Dr. Llewellyn Powell Phillips; Professor Behrendt Pick; A. W. Piper, Esq.; Forbes Pyman, Esq.; H. L. Rabino, Esq.; H. A. Ramsden, Esq.; Monsieur Charles Roessler; the Rev. Edgar Rogers; Edwin Rose, Esq.; Maurice Rosenheim, Esq.; Horace Sandars, Esq.; Professor Boris Schutz; Major-General Sir C. Holland

Smith, K.C.M.G.; H. Stabler, Esq.; Sir Isidore Spielmann, C.M.G.; Messrs. Spink and Son; J. L. Strachan-Davidson, Esq., Master of Balliol College, Oxford; H. Symonds, Esq.; Henry Van den Bergh, Esq.; S. Ward-Evans, Esq.; W. C. West, Esq.; P. Woods, Esq.; Colonel L. Worthington Wilmer.

IV.—*Remarkable Coins and Medals.*

1. *Greek Series:—*

(*a*) *Europe:—*

Italy.—Etruria.—Populonia.—A gold 25-litræ piece; *obv.* Young male head to r., wearing necklace; behind, XXV.; *rev.* Plain. Wt. 21 grs.; fifth century B.C. From Populonia. Cp. A. Sambon, *Monn. ant. de l'italie*, p. 38 no. 5.

Campania.—Capua.—A finely patinated bronze triens of the period 268–213 B.C. *Obv.* Head of Zeus. *Rev.* winged thunderbolt. Wt. 353 grs.

Lucania.—Thurium.—A silver didrachm of the period 281–268 B.C. *Obv.* Head of Apollo of fine style with long hair. *Rev.* Butting bull, inscr. ΘΟΥΡΙΩΝ and magistrate's name ΞΩΙ. Wt. 88·7 grs.

Bruttium.—Caulonia.—A silver stater of the fifth century B.C., of the usual types; symbol, a bull's head surrounded by branches. Wt. 102·6 grs.

Sicily.—Segesta.—Silver tetradrachm. *Obv.* Youthful hunter, nude, accompanied by two dogs; inscribed ΣΕΓΕ-ΣΤΑΙΟΝ. *Rev.* Goddess Segesta, holding ears of corn, driving a four-horse chariot r.; inscribed ΣΕΓΕΣΤΑΞΙΒ. Wt. 250 grs. About 415–409 B.C. This type is the earliest and rarest of the chariot types of Segesta.

Sicily.—Selinus.—A silver didrachm of the archaic period (480–466 B.C.). *Obv.* Selinon (wild celery) leaf of unusual form. *Rev.* Incuse square divided into eight triangles. Wt. 135·3 grs. Another, *obv.* Selinon leaf. *Rev.* ΣΕΛΙ Selinon leaf in incuse square. Wt. 133·7 grs. From a small hoard said to have been discovered in Malta.

Sicily.—Syracuse.—A silver decadrachm of the end of the fifth century B.C., by Kimon. *Obv.* Head of Arethusa to l. surrounded by dolphins. Traces of inscription, ΣΥΡΑΚΟ-ΣΙΟΝ. *Rev.* Four-horse chariot, crowned by flying Nike, on a pedestal on the steps of which is a suit of armour; below, traces of inscription, ΑΘΛΑ. The artist's signature is not visible. The obverse is struck from a fractured die, leaving a large excrescence out of which the head of Arethusa appears to rise as though out of a rock. From the Fenerly Bey Collection (Sale Catalogue, lot 152). Wt. 662·6 grs.

Presented by Henry Van den Bergh, Esq., through the National Art-Collections Fund.

Macedon.—Acanthus.—A silver tetradrachm. *Obv.* Lion devouring bull. *Rev.* Mill-sail incuse impression. Wt.

256·5 grs. From the Taranto hoard (*Rev. Num.* 1912, p. 13, no. 27). This coin and others found with it differ considerably in fabric from the ordinary Acanthian coinage, and are regarded by Babelon (*loc. cit.*) as the earliest of the series (beginning about 515–510 B.C.)

Macedon.—Pella.—A bronze coin of Augustus, with the names of the duumviri C. Herennius and L. Titucius. Wt. 177·9 grs.

Macedon.—Alexander the Great.—An important series of 50 silver tetradrachms of the usual types, from the hoard of Damanhur.

Presented by E. T. Newell, Esq.

Thessaly.—75 silver double victoriates and drachms of the period of the Thessalian League (196–146 B.C.) with *rev.* Athena Itonia, and magistrates' names, from a hoard recently discovered near Larissa.

Illyrio-Epirote.—Damastium.—A fine silver stater of the fourth century B.C. *Obv.* Head of Apollo r. *Rev.* Tripod; magistrates' names, **ΚΗ**(*ισοφῶντος*) and **ΗΡΑΚΛΕΙΔΟ**. Wt. 198·7 grs.

Corinth.—A silver stater of the archaic period after 500 B.C. with the usual types (*rev.* Head of Athena with hair in queue). Wt. 133·7 grs. From the Taranto hoard (*Rev. Num.* 1912, p. 22, no. 50).

Three fine silver staters of the first half of the fourth century, of the usual types, with symbols: stern of galley, ivy leaf and vine branch.

Two finely preserved bronze coins of M. Aurelius (*rev.* Palæmon standing on a dolphin) and Plautilla (*rev.* Artemis huntress, in a temple). Cp. Pausanias II. 1, 7: chryselephantine statue of the boy Palæmon standing on a dolphin, and II. 2, 3: temple of Artemis on the road to Cenchreæ.

Achaia.—Bura.—A bronze coin of Septimius Severus; *rev.* **ΒΟΥΡΕΑΤΩΝ** Tyche standing.

Celtic.—Two gold coins (wt. 38·3 and 37 grs.) from a large hoard discovered recently in a tomb near Vetulonia (Etruria). The obverse type is a plain boss, the reverse a degraded design, derived from the type of the *Regenbogenschüsselchen* usually found north of the Alps. The date is perhaps the third century B.C. The presence of these Celtic coins in Etruria is of considerable historical interest.

(*b*) *Asia and Africa*:—

Cos.—Two silver drachms of the second century B.C. *Obv.* Head of bearded Herakles. *Rev.* Crab, with magistrates' names **ΙΕΡΩ[Ν]** and **ΝΙΚΑΓ[ΟΡΑΣ]**; and two bronze coins with similar types (but the head of Herakles beardless), and magistrates' names **[Ι]ΠΠΑΡΧΟΣ** and **ΣΙΜΟΣ**.

Presented by J. Grafton Milne, Esq.

Rhodes.—A rare silver hemidrachm of the period 408–400 B.C. *Obv.* Head of Helios three-quarters right. *Rev.* **PO** Head of the nymph Rhodos r. in incuse square. Wt. 27·4 grs.

Cappadocia. — *Caesarea.* — A silver didrachm of Nero. *Rev.* **APMENIAC** Victory with wreath and palm flying to right. Wt. 114·1 grs.

A bronze coin of Vespasian. *Rev.* **ΕΠΙ Μ. ΝΕΡΑ. Π[ANCA ΠΡΕ]CBEYTOY ΕΤ. Ι.** Mount Argæus. M. Hirrius Fronto Neratius Pansa was *legatus pro prætore* of Galatia and Cappadocia A.D. 78–80.

Cyprus.—48 silver coins of various mints, including Citium, Idalium, Paphos and Salamis, chiefly from the Dali hoard; and 20 Ptolemaic silver coins struck in Cyprus.

Presented by Sir Robert Hamilton Lang, K.C.M.G.

Syria.— *Seleucis.* — *Laodicea ad Mare.*—A silver tetradrachm of Claudius I. *Obv.* Head and name of Claudius. *Rev.* **ΣΕΒΑΣΤΟΣ ΓΕΡΜΑΝΙΚΟΣ.** Zeus Nikephoros seated; in the exergue, uncertain inscription. Wt. 189·1 grs. Cp. Imhoof-Blumer, *Monn. grecques,* pp. 439f.

Syria.— *Seleucidæ.*— *Antiochus I. Soter* (281–261 B.C.). A rare gold stater, of the types of Alexander the Great (Head of Athena and Nike with standard) with the inscription **ΒΑΣΙΛΕΩΣ ΑΝΤΙΟΧΟΥ**, and the letters **ΔΡΚ** in monogram. Wt. 132·8 grs.

Seleucus IV. Philopator (187–175 B.C.). Silver tetradrachm. *Obv.* Head of Seleucus right, diademed. *Rev.* Apollo on omphalos; above and below, thunderbolts; on the left a laurel branch; inscription **ΒΑΣΙΛΕΩΣ ΣΕΛΕΥΚΟΥ.** Wt. 233·2 grs. Of unusual fabric, and differing from the regular coinage in the adjuncts on the reverse.

Antiochus IV. (175–164 B.C.). A finely patinated large bronze coin. *Obv.* Head of Zeus. *Rev.* **ΒΑΣΙΛΕΩΣ ΑΝΤΙΟΧΟΥ ΘΕΟΥ ΕΠΙΦΑΝΟΥΣ.** Eagle on thunderbolt. Wt. 575 grs.

Judæa.— Second revolt of the Jews.—A specimen of the rare large bronze coin issued in the first year of the revolt (132–133 A.D.). *Obv.* inscription "Jerusalem" in Hebrew characters, in a wreath. *Rev.* "Year one of the Redemption of Israel" in Hebrew characters, around an amphora. Wt. 300·6 grs. Only one other specimen of this coin has hitherto been published (*Frankfurter Münzzeitung,* 1 Apr. 1908).

Parthia.—*Volagases I.*—A silver tetradrachm of the usual types, with the rare date 375=63–64 A.D. Wt. 176·4 grs.

Egypt.—*Ptolemy XIII.*—A selection of 47 silver-plated tetradrachms (contemporary forgeries), from a hoard found at Tanis. *Presented by the Egypt Exploration Fund.*

Cyrenaica.—*Barca.*—A silver drachm of the fifth cent. B.C. *Obv.* Silphium plant; magistrate's name **ΦΑ[Μ]Ι.** *Rev.* **ΒΑΡ** (retrograde); head of Zeus Ammon. Wt. 50·2 grs.

Cyrene.—A silver drachm of the fifth cent. B.C. *Obv.* Silphium plant. *Rev.* KVPA, Head of Zeus Ammon in incuse circle. Wt. 50·8 grs.

A gold stater of the period 431–423 B.C. *Obv.* Zeus Ammon seated, with eagle flying towards him; magistrate's name ΘΕΥΦΕΙ (retrograde). *Rev.* KYPANAIΩN (not KYPANAION as hitherto published) on a tablet in the exergue; quadriga driven by the nymph Cyrene. Cp. Müller, *Anc. Afr.* I., p. 48, no. 184. Wt. 131·2 grs.

A gold half-stater, of the period 431–323 B.C. *Obv.* Horseman, and magistrate's name ΠΟΛΙ. *Rev.* KVPA, Silphium plant; in the field a jerboa. Wt. 66·7 grs.

2. *Roman Series:*—

The most important acquisition in this branch for many years is that of the two hoards of gold imperial coins found at Corbridge in Northumberland, in 1908 and 1911. Both have been fully described in *Archæologia Aeliana*, 3rd ser., vols. V. and VIII., and in *Numism. Chronicle*, 1912, pp. 265–312 and 1913, Pt. I. The hoard found in 1908 contained 48 solidi of the reigns of Valentinian I., Valens, Gratian, Valentinian II., Theodosius, and Magnus Maximus, and a gold ring. The coins are in fine condition, and 43 out of the whole number were struck at Trier; the deposit was probably made about 385–387 A.D., and is one of the last traces of the Roman occupation of North Britain. The hoard of 1911 consisted of 159 or 160 aurei from Nero to Marcus Aurelius; of these, one of Trajan, which had apparently fallen out of the bronze jug in which the others were contained, was not found until a day later. This hoard must have been concealed about 160–162 A.D. It contained many rare pieces, including one of Vitellius and Lucius Vitellius (Cohen, p. 367, 3) and one of Faustina I. (*rev.* PVELLAE FAVSTINIANAE, Cohen, p. 433, 261), commemorating a charity founded by Antoninus Pius in honour of his empress. These two hoards, acquired under the law of Treasure Trove, are preserved intact and separate, instead of being incorporated with the rest of the collection.

Among the other Roman coins acquired may be mentioned:—

Republic.—A bronze *dupondius* of the uncial standard. *Obv.* Head of Minerva. *Rev.* Prow of ship; above, mark of value II. Wt. 734·4 grs. This coin is overstruck on an *as* of the previous (sextantal) period, about 217 B.C. Only three other specimens appear to be known, one in the Paris Cabinet, and two which were recently found with this at Ostia.

Seven silver denarii found in the Centenillo mine, Spain.

Presented by Horace Sandars, Esq.

Nero.—A dupondius (*rev.* Victory), in unusually fine condition; found at Ashley Camp, Hants.

Presented by Gray Hill, Esq.

Probus (276–281 A.D.).—An aureus. *Rev.* P·M·TR·P·V·COS·IIII·P·P and in the exergue ANT. The Emperor in a

triumphal quadriga, holding a laurel branch and sceptre. Wt. 96 grs. Struck at Antioch A.D. 281, commemorating the Emperor's triumph of the preceding year.

Another aureus of the same Emperor, with *rev.* **SECVRITAS SAECVLI**, but without mint mark. Wt. 82·6 grs.

3. *British and Colonial Series* :—

(*a*) Coins and Tokens :—

A Sceat with inscription **EPA** in runic letters.

A penny of Offa of Mercia with moneyer's name (Botred) in Runic characters.

Anglo-Saxon pennies of Offa (unpublished type) and Burgred of Mercia, Aethelstan of East Anglia, Aethelstan of Wessex, Eadred, Edward the Martyr, Aethelred II. and Edward the Confessor.

A selection of pennies of William I. and William II. of various types and mints.

A penny of William II. of the Southwark mint.

Presented by H. Symonds, Esq.

Pennies of Henry I., of which some represent the so-called Canterbury Find and others, through the Rashleigh Collection, the Watford Find.

A Lincoln penny of Stephen's reign reading **PERERIC** in place of the king's name, an issue recently attributed to the Empress Matilda.

A very fine specimen of the rare coinage of Stephen's reign, showing two full-length figures (perhaps Stephen and his Queen Matilda) standing, one on each side of a long sceptre.

Two nobles of Henry IV. from the same obverse die, one belonging to the heavy, the other to the light coinage of this reign.

A rare penny of Henry V. supposed to be struck from dies of Henry IV. altered, by the addition of a mullet beside the crown, for the coinage of Henry V.

A large series of London tokens of the XVII. century, including many rare pieces.

Presented by the Library Committee of the City of London.

(*b*) Medals :—

A pewter specimen of the medal of Charles II. with radiate sun on reverse, figured in *Medallic Illustrations*, pl. LXII., 3. It was previously unknown in this metal.

Presented by P. W. P. Carlyon-Britton, Esq., J.P.

A silver specimen of the medal commemorating the Capture of Quebec in 1759 (*Med. Ill.*, pl. CLXXX., 8), bearing on the edge the inscription "**WILLIAM PITT ADMINISTRING.**" This seems to be the actual specimen presented by Thomas Hollis to Pitt.

Specimens in gold and silver of the medal struck in commemoration of the Durbar at Delhi, 1911.

Presented by the India Office, through the Right Hon. the Earl of Crewe, K.G.

Bronze medal issued by the Duke of Connaught as Governor-General of Canada, with portrait and design by F. Bowcher.

Presented by F. Bowcher, Esq.

4. *Mediæval and Modern Series:—*

(*a*) Coins:—

A Merovingian Triens struck at Troyes, bearing names of mint (**TRECAS**) and moneyer (**SENNVLFVS**).

A selection of XIIIth century deniers esterlins of the Low Countries: Brabant (Jean I.), Hainault (Jean d'Avesnes), Namur (Gui de Dompierre), Loos (Arnold VIII). Found with English and Scottish coins at Mellendean (Roxburgh).

A very rare 4-ducat piece of Magdeburg struck in 1599, with a portrait of the Emperor Otto on horseback.

Coins of Poland (Stephen and Sigismund III.), Brandenburg (Duke Albert) and Salzburg; and mediæval coins of Hungary.

Presented by E. M. Grant Duff, Esq., C.M.G.

A series of Spanish and East Indian coins formerly in the collection of Sir W. Maxwell, K.C.M.G.

Presented by Miss M. Iremonger.

(*b*) Medals:—

A fine specimen, in lead, of the rare medal of Gianfrancesco I. Gonzaga, first Marquis of Mantua, by Pisanello. *Obv.* Bust and titles of the Marquis. *Rev.* the Marquis on horseback, accompanied by a mounted esquire: signed **OPVS PISANI PICTORIS**. Probably made in 1439; *see* J. de Foville in *Rev. Numismatique*, 1909, pp. 406 ff.

A miscellaneous collection of European medals in silver, copper, and lead. *Presented by Maurice Rosenheim, Esq.*

A series of medals of the Argentine Republic.

Presented by Señor Felix F. Outes.

Medals commemorating the centenary of Venezuelan Independence.

Presented by Frederick D. Harford, Esq. C.V.O.

Specimens in silver and bronze of the medals of the Olympic Games, 1912.

Presented by Mr. Kristian Hellstrom.

5. *Oriental Series:—*

An unpublished drachm of the Sassanian Emperor Hormazd I. (272–273 A.D.).

A series of drachms of the Sassanian Emperors Sapor II., Hormazd II., Kobad, Khusrau I., Hormazd IV., Khusrau II., and a copper coin of Ardashir I., with busts of himself and his son Sapor. *Presented by Sir A. Henry Macmahon, K.C.I.E.*

Five dirhems of the Umayyad Caliphate struck at Abu Shahr (92 A.H.), Damascus (80 A.H.), and Wāsit (96, 105, 123 A.H.); and 7 dirhems of the ʿAbbāsid Caliphate struck by al-Mahdī at Sijistān (163 A.H.), and Madinat al-Salām (167 A.H.), and al-Rashīd at Balkh (183 A.H.), Baṣrah (182 A.H.), Muḥammadiyah (191 A.H.), Sijistān (174 A.H.), and Zaranj (192 A.H.) *Presented by Sir A. Henry Macmahon, K.C.I.E.*

Four dirhems of the Sāmānid Naṣr II. b. Aḥmad struck at Enderābeh (301 A.H.), Nīsāpūr (309, 321 A.H.), and al-Shāsh (314 A.H.) *Presented by Colonel L. Worthington-Wilmer.*

A dirhem of the Ṭāhirid Ṭalḥa b. Ṭāhir struck at Zaranj (209 A.H.); a dinar of Khalaf b. Aḥmad of Sijistān, and silver and copper coins of Aḥmad b. Muḥammad of Sijistān; copper coins of the Sāmānids Manṣūr I. and Nūḥ II.; a fine series of copper coins of the kings of Nīmrūz, Ḳuṭb al-Dīn, Tāj al-Dīn, Ka'an al-ʿĀdil and ʿIzz al-Dīn, who were hitherto quite unrepresented in the Museum; a dīnār of ʿĀlā al-Dīn Khwārizmshāh, and 4 dirhems of Tamerlane.

Presented by Sir A. Henry Macmahon, K.C.I.E.

Two copper coins of Ḳutlagh Khwaja, a Chaghatāi invader of India. *Presented by Colonel H. E. Deane.*

A silver coin of the Āḳ-Kuyunlī Yāḳūb Beg struck at Sārī. *Presented by H. L. Rabino, Esq.*

Five silver coins of the Shāhs of Persia, Ismāʿīl I. struck at Nīmrūz, Taḥmāsp I. at Herāt, Ḥusain Shāh at Tabrīz (1137 A.H.), Sulaimān I. at Huwaiza (1086 A.H.), and Muḥammad Shāh at Yazd.

Presented by Sir A. Henry Macmahon, K.C.I.E.

Fourteen silver coins of Ismāʿīl I. of Persia of the mints Karījan, Lahijān, Lestenshāh, and Timejān, and silver coins of Taḥmāsp I. and Karīm Ḵhān.

Presented by H. L. Rabino, Esq.

A gold tuman of Fatḥ ʿAlī Shāh of Persia struck at Kermānshāhān (1239 A.H.), and another of Muḥammad Shāh of Ṭeherān (1260 A.H.).

A rupee of Nādir Shāh of Persia struck at Sind during his invasion of India.

Presented by the Bombay Branch of the Royal Asiatic Society.

Six Afghan rupees of Shāh Shujāʿ struck at Peshāwar (year 1) and Kābul (1295 A.H.), Maḥmūd, Peshāwar (year 8), ʿAyyūb Shāh, Peshāwar (year 6), and ʿAbd al-Raḥmān, Kābul (1304 A.H.), and Herāt (1297 A.H.). *Presented by Lady Gatacre.*

A very fine collection of 13 gold, 262 silver, and 238 copper coins of the Durrānī and Barākzai dynasties of Afghanistan, the Sikhs and the modern Dogra kingdom of Kashmir, including many rare and unpublished pieces, among which may be mentioned a gold mohur of Aḥmadnagar and rupees of Dera, Barēlī, Murādābād and Sahrind of Aḥmad Shāh, a mohur of Tīmūr of Lahore, rupees of the Afghan pretenders, Afzal

Shāh, ʿAẓam Shāh, Yāḳūb Khān and Muḥammad Isḥāḳ; a double mohur of Ranjit Singh, of Amritsar, and a gold coin of Gholab Singh of Kashmir. This collection is of special importance for the study of the history of the Durrani and Sikh empires.

A very rare bronze coin of Apollodotus II. *Obv.*, bow-case, and titles in Kharoshthi. *Rev.*, the King standing to front.

Presented by G. Morley, Esq.

Twenty hemidrachms of the Indo-Greek king Zoilus, with various symbols and monograms.

Two hemidrachms of the Indo-Greek king Menander and a gold coin of the late Kushans of North India.

Presented by Sir A. Henry Macmahon, K.C.I.E.

A gold coin of Candragupta II. of the *Chattra* type and another of Kumāragupta I. of the Swordsman type.

A copper coin of Toramāṇa, a Hun invader of India.

Presented by Lieutenant-Colonel H. P. P. Leigh.

A gold mohur of Aurangzīb of Ākbarābād (1071 : 5 A.H.), and another of Muḥammad Shah of Mu'azzamābād (1136 A.H.)

Four rupees of Aurangzīb of Surāt (1094 : 24) and Tatta, Muḥammad Shah of Multān (1053 : 12), and Farrukhsiyar of Surāt; 3 local rupees of Gwalior and Baroda.

Presented by the Bombay Branch of the Royal Asiatic Society.

A rupee of Aurangzīb of Katak (year 6).

Presented by the Director of Agriculture, Central Provinces.

A rupee of Haidarābād State (1302 A.H.).

Presented by Lady Gatacre.

A gold coin of the Chola king Rajendra, and another of Veṅkatadeva of Vijayanagara.

A gold coin of the Kadamba dynasty (Elliot, Pl. I., 16).

Presented by the Director of Agriculture, Central Provinces.

Fifty-four copper coins of South India and Ceylon, including Roman coins found in Ceylon.

Presented by the Misses R. and C. Layard.

6. *Chinese Series :—*

A 20 cent piece of the first year of the Emperor Hsuan T'ung (1909) of Manchuria, restruck by the revolutionaries shortly before the proclamation of the Republic.

Presented by Edwin Rose, Esq.

V.—*Books presented to the Departmental Library.*

Among the more important books presented during the year are :—

" Corpus Nummorum Italicorum," Vol. III.

Presented by His Majesty the King of Italy.

"Recueil Général des Monnaies Grecques d'Asie Mineure," Vol. I., Fasc. 4.

Presented by the Académie des Inscriptions et Belles Lettres, Paris.

A selection of Numismatic books, including Reimann's "Münzen und Medaillen Cabinet" (3 vols.).

Presented by Maurice Rosenheim, Esq.

Histoire des Quatres Gordiens, 1695.

Catalogue Numismatique, J. de Bary, 1730.

Presented by R. A. Peddie, Esq.

Numismatic Supplements to the Journal of the Asiatic Society of Bengal, Nos. IX., XI.–XV.

Presented by the Hon'ble H. Nelson Wright.

"Les Barmécides d'aprés les Historiens Arabes et Persans."

Presented by M. L. Bouvat.

Transactions of the Numismatic Sections of the Imperial Russian Archæological Society, Vols. I. and II.

Presented by O. M. Dalton, Esq.

Pamphlets on Russian coins by A. L. Bertier-Delagarde, with marginal analyses in English.

Presented by E. H. Minns, Esq.

"Forrer's Biographical Dictionary of Medallists," Vol. V.

Presented by Messrs. Spink and Son.

VI.—*Students and Visitors.*

The number of visits made to the Department of Coins and Medals by students and others during the year 1912 was 4,044.

G. F. Hill.

British Museum (Natural History).

STATEMENT of Progress made in the Arrangement and Description of the Collections, and Account of Objects added to them, in the Year 1912.

General Progress.

Visitors.

The total number of visits made by the public to the Natural History Museum during 1912 was 455,613, an increase of nearly 20,000, as compared with 435,684 in 1911. The number of visits on week days was 404,848, and on Sunday afternoons 50,765. In 1911 the Sunday afternoon visitors numbered 54,693.

The average daily attendance for all open days was 1,276; for week days only, 1,323; and for Sunday afternoons, 995.

Swiney Lectures.

Dr. Jehu gave his fourth course of Swiney Lectures on three afternoons a week during the months of December and January, with an interval for the Christmas holiday. His subject on this occasion was "The Record of Life as revealed in the Rocks," and the lectures, 12 in number, were delivered, as usual, in the theatre of the Victoria and Albert Museum, by permission of the Board of Education. The attendance for the course totalled 1,931, or an average of 161 persons per lecture.

Dr. Jehu's appointment has been extended for another year, and he proposes to give a course of lectures in December next on "The Natural History of Minerals and Ores."

Official Guide.

An Official Guide (Mr. J. H. Leonard, B.Sc.) has been appointed to take parties of visitors round the collections, daily, except Sundays, free of charge. The experiment has proved a great success, and the services of the Guide are so much in request that it is evident that the public greatly appreciate this new departure.

Department of Entomology.

Owing to the rapid growth of the entomological collections, and the importance, now widely recognised, of the study of insects in relation to the spread of disease in man and in animals, the Trustees considered that the time had arrived when the section of entomology should be constituted a distinct Department with a Keeper at its head.

The Treasury have agreed to this step, and Mr. C. J. Gahan has been appointed Keeper of Entomology.

The remarkable increase in our knowledge of the rôle played by insects in relation to many sides of human activity has led to a great development in the work of this section of the Museum. All the available accommodation for the proper arrangement of the collections and for their study is now exhausted, and the congested state of the entomological collections is engaging the serious attention of the Trustees. They have under consideration a plan for a considerable extension westward of the main building of the Natural History Museum, which would provide not only adequate accommodation for Entomological Research and an exhibition series of Insects, including a series of specimens illustrating the economic side of the subject, but also much needed space for other portions of the Zoological Department, including a gallery in which a comprehensive display of specimens of Whales could be made.

Re-arrangement of the Study Collection of Birds.

During the summer the Bird Room was closed for six weeks to allow of a complete re-arrangement of the Study Collection of Birds in accordance with the Museum Hand-list. The opportunity was taken of counting this vast collection, and it was found that it consists of nearly 700,000 specimens, referable to about 19,000 species. The collection is now arranged in 379 cabinets.

Projected Flight Exhibition.

The Exhibition of Animals, Plants, and Minerals mentioned in the Bible has been dismantled, and an exhibition is in preparation of specimens illustrating modifications of structure of animals in relation to flight. The series will prove of interest in connection with the science of aeroplaning.

Nature Reserves.

The Trustees have given permission to the newly established Society for the Promotion of Nature Reserves in the United Kingdom to make use of the Natural History Museum as the temporary address of the Society, with whose aims they are in cordial sympathy.

International Commission for the Protection of Nature.

Mr. C. E. Fagan, I.S.O., Assistant Secretary, has been appointed one of the British delegates to the Permanent International Commission for the Protection of Nature, which has its headquarters at Basle.

International Congress of Entomology.

The Hon. Walter Rothschild, F.R.S., and Mr. C. J. Gahan were nominated to represent the Natural History Museum at the Second International Congress of Entomology, held at Oxford in August 1912.

Museums' Association.

Dr. F. A. Bather, F.R.S., Assistant Keeper, was again nominated to represent the Natural History Museum at the annual conference of the Museums' Association held at Dublin in July.

Fisheries Committee of Board of Agriculture.

Dr. Harmer, F.R.S., Keeper of Zoology, has been appointed to serve on a Committee to advise the Board of Agriculture and Fisheries on various fishery questions.

Ghent International Exhibition, 1913.

The Trustees readily gave their assent to a request from the Colonial Office and the Board of Trade for the co-operation of the Natural History Museum in organising at the Ghent International Exhibition, 1913, a British Government Exhibit illustrating the work done in Great Britain in the investigation and study of tropical diseases.

Warming and Ventilation.

His Majesty's Office of Works having represented to the Trustees that a central boiler-house had been constructed in the Exhibition Road at the Victoria and Albert Museum with sufficient power to heat the Natural History Museum as well, and that a considerable economy of public expenditure could be effected by heating both Museums from that centre, the Trustees have agreed to transfer this service to the control of the Office of Works from 1st April 1913.

Electric Lighting.

Progress has been made with the electric lighting of the Museum. Arrangements have been made to proceed with the installation of the light in the ground-floor galleries on the east side (Geology) in the same way as that carried out in the west wing (Zoology), except in the Gallery of Fossil Reptiles, where incandescent lamps of a high power will be used. As a safeguard against accident, a pilot light installation will be introduced throughout the building in the course of 1913.

Unpacking Room.

A much needed room for the reception and unpacking of specimens has been erected in the rear of the building in convenient proximity to the entrance to the zoological basement.

Subway to District Railway Station.

An agreement has been come to between His Majesty's Office of Works and the Metropolitan District Railway Company as to the terms on which the Company's subway at

South Kensington and the accesses thereto may be used. The connection between the subway and the grounds of the Natural History Museum was opened for the use of the public on 16th December, since when the gates have been open daily during Museum hours.

Stranded Whales.

With the assistance of the Board of Trade, arrangements have been made for prompt information being sent to the Museum of the stranding of any whales on the British coasts. A pamphlet describing the different kinds of whales has been prepared by the Museum for distribution by the Board of Trade among Receivers of Wreck, Coastguardmen, Lighthouse Keepers, and others. It is hoped that this pamphlet will aid in the identification of the various species of whales, and thus facilitate the acquisition of specimens that are wanted for the National Collection.

During the summer a representative of the Museum was sent to the Shetlands to collect specimens illustrating the structure of whales. The results of this mission were very satisfactory, and may be regarded as an encouragement for further work of the same kind in future years. The specimens obtained included the baleen and paddles of two species of Rorqual Whales.

Dr. Oswald's Expedition to British East Africa.

Dr. Felix Oswald's expedition to British East Africa to explore the bone-bearing deposit in the Karungu district on the Victoria Nyanza resulted in the acquisition by the Museum of an interesting collection of geological specimens, including remains of Dinotherium, and confirming the geological age of the fauna as already provisionally determined. With these long extinct mammalian remains were found fresh-water shells that are essentially the same as those now living in the same district, thus proving that the Victoria Nyanza has existed since early Tertiary times, and that, while the mammals have changed there as in other regions, the molluscs have remained unmodified during the whole period.

The Trustees have approved a proposal by the Keeper of the Geological Department to arrange for the preparation of a series of descriptive notes on the collection for publication.

Loan of Specimens by Their Majesties the King and Queen.

By direction of Their Majesties the King and Queen six Lyre Birds' tails have been sent on loan to the Museum. An interesting exhibit has been made of three of the tails, while the remaining three have been placed in the study series.

Bequests.

Verrall Collection.—Some 11,650 Diptera were received at the Museum under the terms of the will of the late Mr. G. H. Verrall, to whose bequest of part of his collection reference was made in the last report (p. 105).

Adams Collection of Lepidoptera.—The Museum has been enriched by the acquisition of the very valuable collection of Exotic and Palæarctic Lepidoptera formed by the late Mr. H. J. Adams, who bequeathed it to the Trustees, subject to the conditions that the collection "be known as the 'Adams " Collection' and kept intact for 25 years, after which time " the authorities shall be at liberty to transfer the 'type' " specimens to the National Collection and also such others " (with due care not to deplete) as they may think desirable " for improvement of the same"; that all specimens transferred be labelled as from the H. J. Adams Collection; and that the remainder be still known as the "Adams Collection," and no part of it sold or exchanged.

This magnificent collection is estimated to consist of about 140,000 specimens, 109,000 of these, comprising the butterflies and some of the larger moths, being contained in 69 cabinets, while the remaining 31,000 are moths contained in 531 carton boxes.

Hume Collection of Indian Horns.—The late Mr. Allan O. Hume, C.B., who died in July, bequeathed to the Museum his valuable collection of heads and horns of Asiatic and other horned animals, subject to the condition that it be preserved "as an entire and undivided collection." The bequest consists of 107 specimens, considered to be the finest series of Indian horns ever brought together, all being much beyond average dimensions, some being records, and several types. The Trustees have accepted this splendid bequest, with the condition attached, and arrangements are in progress for exhibiting the collection.

Presents.

The total number of gifts received during the year by the several Departments was 2,444, as compared with 2,431 in 1911. Many of these comprised large numbers of individual specimens. The details of the more important of them will be found in the reports of the Keepers of the Departments, but the following are mentioned here also, as being of special interest:—

From Mrs. Beddome.—A selection from the collection of shells from India (including Burma and the Malay Peninsula) made by her husband, the late Col. R. H. Beddome, of all such species as were required to complete the Museum collection: the selection to be made by Lieut.-Col. H. H. Godwin-Austen, who had been a close friend of Col. Beddome and was well acquainted with the contents and value of the collection.

From Mr. A. Blayney Percival.—The skin of a white Zebra, from the Loriar Swamp, British East Africa.

Also an interesting series of 374 birds collected by him in British East Africa.

From the Earl of Ancaster.—Series of plaster casts of British and Indian Cattle and British Sheep and Pigs, modelled by G. Garrard in 1800.

From Mr. F. N. A. Fleischmann.—A valuable and interesting series of 45 minerals from the Walker collection.

From Miss Rose Fryer.—The valuable collection of British Pond weeds made by her father, the late Mr. Alfred Fryer, who devoted many years to the critical study of the subject, on which he was the recognised authority, and whose herbarium contained 5,450 sheets.

From Mr. and Mrs. P. Amaury Talbot.—An important collection of 2,800 plants from South Nigeria. (A Catalogue of the Plants of South Nigeria, based on this collection, is in preparation.)

Purchases.

Among the more important purchases made during the year, special attention may be drawn to the following:—

The third instalment of the Lewis collection of Coleoptera from Japan and Ceylon, consisting of about 8,000 specimens; the second instalment of the Distant collection of Insects, comprising 4,970 specimens and including 250 types; further instalments of the late Rev. Canon Thomas Blackburn's collection of Australian Coleoptera; a fine series of fishes and reptiles, from Portuguese Guinea and Chiloango, collected by Dr. W. J. Ansorge; a valuable collection of mammals and birds made by Mr. D. Carruthers in Central Asia; shells from South Africa, Japan, &c., including 55 types from the Layard collection; a collection of Woodlice (some 6,500 specimens) from all parts of the world, made by the late Gustav Budde-Lund; two skulls of fossil mammals (*Mesatirhinus* and *Dolichorhinus*), from the Eocene of the United States, in nearly perfect preservation; coloured plaster casts of skull and mandible of *Tyrannosaurus*, from the Laramie of Montana; a restored skeleton of *Eryops*, from the Permian of Texas; a large skeleton of a Crocodilian (*Mystriosaurus*), and skull and paddles of *Ichthyosaurus*, from Würtemburg; 600 cephalopoda from the Cretaceous of Hanover; a remarkably fine specimen of the Cretaceous bony fish *Portheus* (an ally of the Herring family), 14 feet long, from Kansas; 15 Anomodont reptiles from the Karoo of South Africa; a complete skeleton of a short-tailed Pterodactyl; a fine series of 180 minerals from the Walker collection; a large faceted colourless topaz; a large faceted aquamarine of unusually fine bluish green colour; fragments of meteoric stones from Cullison, Kansas (1911); Kermichel, Morbihan (1903); St. Germain-en-Puel (1890); sections of meteoric irons found near Tepl, Bohemia, and Kingston, New Mexico; a series of 101 meteoric stones, part of a shower which fell near Holbrook, Arizona, July 12, 1912; 751 Chinese plants collected by E. H. Wilson; 978 Philippine plants.

Exchanges and Gifts of Duplicates.

Exchanges of duplicate specimens have been made with various institutions and individuals.

The following additions have been made to the list of institutions to receive grants of duplicate specimens, namely:—University of Edinburgh; Towneley Hall Museum, Burnley; Lancing College; Kilmarnock Museum; Barry Public Museum; the Parkes Museum of the Royal Sanitary Institute; Dundee Public Museum; Poole Public Museum; Friends' Foreign Mission Association (China Committee); Ross-on-Wye Secondary School; Birmingham Museum and Art Gallery.

Selections of duplicate specimens have been presented as follows:—

Of zoological specimens—to Warrington Museum; Manchester Museum; L.C.C. Secondary Schools at Clapham and Eltham; Haslemere Educational Museum; Royal Scottish Museum, Edinburgh; Royal Albert Memorial Museum, Exeter; the Parkes Museum of the Royal Sanitary Institute; Bristol Museum and Art Gallery; Royal Normal College for the Blind; Salford Museum; Birkbeck College; St. Andrews University Museum; Friends' Foreign Mission Association (China Committee); Prof. C. Chilton (New Zealand); Vicomte R. du Buysson (Paris); Señor R. P. Longinos Navas, S.J. (Saragossa); Dr. R. Gestro (Genoa); Mr. H. d'Orbigny (Paris); Dr. F. Ohaus (Berlin); Mr. Heinrich Prell (Marburg); Dr. F. Netolitzky (Czernowitz); Dr. Kraepelin (Hamburg); Prof. J. J. Gillet (Nivelles); Mr. A. Grouvelle (Paris); Surgeon-Major A. Sicard; Mr. F. Hendel (Vienna); Mr. Hans von Krekich-Strassoldo (Vienna).

Of fossils and casts of fossils—to Goldsmiths' College; Manchester Museum; Bethlem Royal Hospital; Norwich Castle Museum; National Museum of Wales, Cardiff; Peterborough Museum; Barry Public Museum; Mr. E. B. Lotherington.

Of mineral specimens—to the Bombay Natural History Society (cast of meteorite).

Of botanical specimens—to Mr. W. P. Hiern, F.R.S.

(N.B.—All the *individuals* named have presented specimens or otherwise benefited the Museum.)

Loan of Duplicate Specimens.—Five duplicate stuffed animals were lent to the Whitechapel Art Gallery for a Sports and Pastimes Exhibition that took place during November and December; and four of these specimens were passed on to the Salvation Army for an exhibition at the Army's Trade Headquarters.

Publications.

The following works on Natural History have been published during the year:—

History of the Collections, Vol. II.—Appendix. General History of the Department of Zoology from 1856 to 1895.

By Dr. A. Günther, F.R.S., formerly Keeper of the Department of Zoology Pp. ix., 109. 8vo. 5*s*.

National Antarctic Expedition, 1901–4. ("Discovery" Expedition.) Natural History, Vol. VI. Zoology and Botany. Pp. xvi., 101; 8 plates, 1 key-plate, and 1 text-figure. 4to. 16*s*.

Catalogue of Chiroptera (Bats). By Knud Andersen. Vol. I. Megachiroptera. Pp. ci., 854; 85 text-figures. 8vo. £2 10*s*.

Catalogue of Mammals of Western Europe (Europe exclusive of Russia). By Gerrit S. Miller. Pp. xv., 109; 213 text-figures. 8vo. £1 6*s*.

General Index to Vols. I.–V. of the Hand-list of Birds. Edited by W. R. Ogilvie-Grant. Pp. v., 199. 8vo. 10*s*.—Large paper edition printed on one side only. Pp. v., 388. fol. £1.

Catalogue of Birds' Eggs, Vol. V. Carinatæ (Passeriformes completed). By W. R. Ogilvie-Grant. Pp. xxiii., 547; 22 coloured plates. 8vo. £2 7*s*. 6*d*.

Revision of the Ichneumonidæ. By Claude Morley. Part I. Tribes Ophionides and Metopiides. Pp. xi., 88; 1 coloured plate. 8vo. 4*s*.

Catalogue of Lepidoptera Phalænæ (Moths). By Sir George F. Hampson, Bart. Vol. XI. Noctuidæ (Sub-families Eutelianæ, Stictopterinæ, Sarrothripinæ, and Acontianæ). Pp. xvii., 689; 275 text-figures. 8vo. £1.—Atlas of 16 coloured plates. 8vo. 17*s*. 6*d*.

Catalogue of the Chætopoda. A. Polychæta: Part I.—Arenicolidæ. By J. H. Ashworth, D.Sc. Pp. xii., 175; 15 plates, 68 text-figures. Roy. 8vo. £1 7*s*. 6*d*.

New editions have been issued of the following Guide-books, etc.:—

Guide to the Specimens illustrating the Races of Mankind (Anthropology). Second Edition. By R. Lydekker, F.R.S. Pp. 35; 16 illlustrations. 8vo. 4*d*.

Guide to the Domesticated Animals (other than Horses) exhibited in the Central and North Halls of the British Museum (Natural History). Second Edition. By R. Lydekker, F.R.S. Pp. 56; 25 illustrations. 8vo. 6*d*.

Instructions for Collectors. No. 1.—Mammals. Fourth Edition. Pp. 8. Text illustrated. 8vo. 3*d*.

Instructions for Collectors. No. 2.—Birds and their Eggs. Fifth Edition. Pp. 13; 6 text-figures. 8vo. 3*d*.

Selections of the natural history publications of the Museum have been sent to Free Libraries and other institutions in Great Britain and Ireland, to Colonial, Indian, and foreign Museums, Libraries, and Scientific Societies, and to several persons who have benefited the Museum by helping in the publication of the volumes, or in other ways; and additions have been made to the publications-exchange list.

The under-mentioned works are in preparation :—

Catalogue of the Library, Vol. IV.

Catalogue of Bats, Vol. II., by Dr. Knud Andersen.

Catalogue of Ungulates, by R. Lydekker, F.R.S.

Catalogue of the Hume Collection of Indian Horns.

Catalogue of the Freshwater Fishes of Africa, Vol. III., by G. A. Boulenger, F.R.S.

Third Report on Economic Zoology.

Illustrations of British Flies, Second Series.

Illustrations of Oriental Blood-sucking Flies, by E. E. Austen.

Catalogue of Moths, Vols. XII. and XIII., by Sir George F. Hampson, Bart.

Catalogue of the British Species of Pisidium, by B. B. Woodward.

Flora of Jamaica, Vol. II., by W. Fawcett.

Catalogue of South Nigerian Plants.

Catalogue of the Sloane Herbarium, by J. Britten.

Catalogue of Fossil Fishes, Part V., by Dr. A. S. Woodward, F.R.S.

Catalogue of Cretaceous Flora, Vol. I., by Miss Marie Stopes, D.Sc.

Guide to British Lichens.

Guide to Flight Exhibition.

General Library.

The additions to the General Library during the past year have been :—

By purchase - -	454 volumes.
By donation - - -	589 volumes, 4 maps, and 69 photographs.
Total - -	1,043 volumes, 4 maps, and 69 photographs.

All the volumes and maps have been catalogued, press-marked, and put in their places; whilst 1,778 volumes have been bound in 680, and one has been repaired.

The extent of the collection on the 31st of December was 42,041 volumes, 5,790 maps, and 764 photographs (not including those in the Owen Collection of Drawings, etc.).

The accessions to the Departmental Libraries have also been catalogued as they came in, and duplicate transcripts of the titles have been returned with the books.

Altogether 2,467 title-slips have been written, 209 re-written, and 3,656 revised (independently of those prepared for printing).

There are now, on a rough estimate, 91,379 volumes (exclusive of continuations and minor separata) and 6,180 maps in the whole building.

The number of visits paid to the General Library during the year by students and others (irrespective of the staff and persons to whom the use of a key is granted) was 2,041.

A further donation of five volumes was received from H.I. and R.H. the Archduke Ludwig Salvator of Austria. The other personal donors to the Library during the year were—

Lord Sudeley.
Bather, Dr. F. A.
Darwin, Sir Francis.
Imeson, W. E., Esq.
Kennard, A. S., Esq.
Read, Sir C. Hercules.
Sherborn, C. Davies, Esq.
Smith, Dr. T. P.
Tomlin, J. R. Le B., Esq.
Woodward, Dr. A. Smith.
Woodward, Mrs. A. Smith.

Valuable donations were also received from the Egypt Exploration Fund and the Swedenborg Society.

The printing of the Catalogue was proceeded with, and the work at the end of the year stood as follows:—

No. of sheets passed for press (A—SCHULZ) - - 234
No. of title-slips set up in type (A—SERG) - - 53,399

The following bibliographical paper dealing with an important series of works was published during the year:—

Sherborn (C. D.) and Prout (L. B.), Note on the Date of Publication of the Works of Jacob Huebner on the Lepidoptera. (Ann. and Mag. Natural History, Ser. VIII., Vol. IX., pp. 175–180).

Index Generum et Specierum Animalium.

The Trustees have taken over from the British Association the preparation of the "Index Generum et Specierum Animalium," which had been conducted for the previous 20 years by a Committee of that Association; and the Minute Book, MS. slips, and all other documents connected with the work have been transferred by the Committee to the Trustees for preservation in the Natural History Museum.

Since the transfer of the work to the Museum on 1st April 1912, considerable progress has been made with the *Index*, under the charge of Mr. C. Davies Sherborn, some 20,000 slips having been compiled and incorporated, whilst, in addition to daily consultation by the staff and students, 30 enquiries from abroad were answered.

INDEX MUSEUM AND MORPHOLOGICAL COLLECTIONS.

All the dissections exhibited in the Hall have been examined during the course of the year; 22 dissections have been re-mounted in alcohol, and four new preparations have been added.

The series of enlarged models in the middle of the Hall illustrating the life-cycle of the Malarial parasite is undergoing revision. In the House-Fly case, models have been introduced of the eggs, larva and pupa, enlarged to the same scale as the Fly model.

In Bay VI. has been set out a series of 24 skins of Pigeons illustrating the results of cross-breeding experiments on Mendelian lines conducted by Mr. J. L. Bonhote and Mr. F. Smalley, and a small addition has been made to the series of cross-bred Maize cobs presented by Mr. R. H. Lock.

Progress has been made with the series of preparations designed to explain to the general visitor the elementary principles of the classification of the animal kingdom, but it is not proposed to put the preparations on exhibition until the whole series has been completed.

The series of specimens illustrating the structure of Flying Animals, referred to in the last annual report (p. 111), is now so far advanced as to be ready for setting out in the Hall when accommodation can be found. The part relating to Insects is already displayed in a special case, and will be ready for exhibition when the explanatory labels have been printed.

A series of 12 slides has been prepared for examination under a microscope by the visiting public, showing certain structural features of the wings of Insects and the feathers of Birds that are too minute to be otherwise studied

L. Fletcher,
Director.

British Museum (Natural History),
22 February 1913.

Department of Zoology.

I.—*Arrangement and Conservation.*

Mammalia.

Mammal Galleries.

During the latter part of the year under review the preparation of the Hume Bequest of Indian Big Game heads for exhibition on the wall above the Banks Statue at the top of the main staircase has been actively pushed on; but at the time of writing this Return the actual installation had not been commenced.

No special alterations in the arrangement of the Mammal Galleries have taken place during the year; and work has been confined in the main to the installation of new specimens, and the rewriting and printing of such labels as required modification in order to bring them up to date.

A small case has been placed on the wall behind the Kudu case, at the top of the staircase leading to the West Corridor, to illustrate, by means of small diagrammatic models, the variations in the direction of the spirals of the horns of the Hollow-horned Ruminants. It is hoped that by this means a difficult and complicated subject may be made plain to the general public.

The installation of black blinds in the Lower Gallery—in order to preserve the specimens from the deleterious effect of light during the long summer mornings, before the opening of the Museum,—and the structural alterations required for the installation of Tobin Tubes have rendered it necessary to remove many specimens and pictures temporarily from the walls, and likewise to cover up some of the cases, but these operations have not seriously interfered with the accessibility of the exhibits as a whole.

A new and revised edition of the *Guide to the Specimens of Anthropology*, in the preparation of which the author (Mr. R. Lydekker, F.R.S.) has been assisted by advice from specialists in this country and in America, has been printed during the year; but no additions have been made to the exhibited series in this part of the collection.

The additions by presentation to the exhibited series in the Mammal Galleries and Corridors include the following:—

In the Primates, a male Gorilla (*Anthropopithecus gorilla*) presented by the Hon. Walter Rothschild, F.R.S., forms a striking addition to the central case in the Upper Gallery; the same case also including an adult male Pig-tailed Macaque (*Macacus nemestrinus*), the gift of W. J. Henning, Esq. To the Rodent cases the only addition is a Red-fronted Ground Squirrel (*Xerus dabagalla rufifrons*), presented by A. B. Percival, Esq. An important addition to the Carnivora is a fine Clouded

Leopard (*Felis nebulosa*), presented by the Zoological Society, alongside of which is placed a specimen of the Formosan race of the same species (*F. nebulosa brachyura*), acquired by purchase; another addition being a Large-toothed Indian Otter (*Lutra macrodus*), the gift of Percival Landor, Esq.

The new specimens of Ungulata comprise a bull Laikipia Eland (*Taurotragus oryx pattersonianus*), presented by F. C. Selous, Esq.; a Cape Hartebeest (*Bubalis caama*), presented, at the suggestion of the Earl of Selborne, K.G., by the De Beers Mining Co.; a Kob Antelope from the Guasin Gishu, the proper name of which has not yet been determined, presented by C. Bulpett, Esq.; a series of Antelope heads, including two of Cotton's Reedbuck (*Cervicapra cottoni*) from the Dinder Valley, presented by Col. E. J. Gunthorpe; horns of Kudu (*Strepsiceros strepsiceros*), presented by J. C. Starke, Esq.; skull and horns of Mountain Nyala (*Tragelaphus buxtoni*), presented by Rowland Ward, Esq.; head of Guaso Nyiro Dik-dik (*Madoqua cavendishi minor*), presented by F. C. Selous, Esq.; a skull and horns of Sonoran Bighorn (*Ovis canadensis gaillardi*), presented by Messrs. I. N. and J. C. Dracopoli; head of South Nigerian Buffalo (*Bos caffer hunti*) presented by A. W. Hunt, Esq.; an unusually large Indian Wild Boar (*Sus cristatus*), presented by F. C. Anderson, Esq.; a Sonoran Peccary (*Dicotyles angulatus sonoriensis*); lower tusks of Hippopotamus (*Hippopotamus amphibius*), presented by J. C. Lyell, Esq.; and a Malay Tapir (*Tapirus indicus*), the gift of H. C. Robinson, Esq., Director of the Federated Malay Museums.

Whale-Room.—The replacement of the stuffed skins of Dolphins and Porpoises by coloured plaster-casts, which has been in progress for several years, has been practically completed, with a manifest improvement to the series from an exhibition point of view.

During the year the paddles of three species of Rorqual, namely, the Blue Whale (*Balænoptera sibbaldi*), the Common Rorqual (*B. musculus*), and Rudolphi's Rorqual (*B. borealis*) have been procured from the Shetlands and utilised for exhibition in the Whale Room. This has been done by preparing a coloured cast of the entire flipper and afterwards a second cast showing the natural arrangement of the bones as displayed in a dissection. Arrangements for exhibiting these as well as sets of baleen or whalebone of the Common Rorqual and Rudolphi's Rorqual are in progress.

Study Series:—

The usual work of labelling, registering, and incorporating the mammals added to the collection has been continued.

Two cabinets for storing small Mammal skins and a block of six cabinets for storing medium-sized Mammal skins have been acquired. In addition, four writing tables have been added to the furniture in the New Room.

The collections of Old World Monkeys, Fruit Bats, and Ungulates have been entirely rearranged.

The Department is again much indebted to volunteer helpers for valuable assistance in working out new forms of Mammals. The following gentlemen should be specially mentioned in this connection:—Mr. R. C. Wroughton, Dr. Knud Andersen, Mr. Gilbert Blaine, Major G. E. H. Barrett-Hamilton, Dr. R. E. Drake-Brockman, Mr. J. Lewis Bonhote, and Mr. E. Heller.

The Department is further indebted to Mr. Gilbert Blaine for having kindly undertaken the preparation of a new Manuscript List of the collection of Ungulates.

In connection with the Bombay Natural History Society's Survey of the Mammals of India, Mr. R. C. Wroughton, Mr. T. B. Fry, and Miss K. Ryley have worked out the various collections, published reports on the same, and selected series for registration. The thanks of the Department are due to these three volunteer helpers for the great assistance thus rendered.

The services of Dr. Knud Andersen have been continued for the preparation of the new Catalogue of Bats, the first volume of which, dealing with the Fruit Bats, has now been published.

The Catalogue of the Mammals of Western Europe by Mr. Gerrit S. Miller has also been published.

The Catalogue, written by Mr. R. Lydekker, F.R.S., of the heads and horns of Indian Big Game bequeathed by A. O. Hume, C.B., is now in the press and will shortly be published.

A Catalogue of the Collection of Ungulates is being prepared by Mr. R. Lydekker.

The arrangement of the skeleton collection in the Osteological Room has made good progress. A new cabinet for the reception of large Ungulate skeletons has been supplied. Various portions of Whales and of their embryos have been added to the spirit collection.

Additions of special interest to the Osteological and Anthropological collections:—13 skulls of Peruvians showing distortion of the brain-case caused by bandaging during infancy; received in exchange. The skeleton of a Malay Tapir; presented by the Taiping Museum. The skeleton of the famous race horse "Common"; presented by Dr. A. Boyce Barrow. The skeleton of the rare Cetacean, *Globicephala indica;* presented by H. C. Robinson, Esq. The paddles of the Common Rorqual, *Balænoptera musculus*, Sibbald's Rorqual, *Balænoptera sibbaldi*, and Rudolphi's Rorqual, *Balænoptera borealis;* the baleen of the Common and Rudolphi's Rorqual; and the skeleton of an Elephant Seal; purchased.

Abnormal Coloration.

To the series of albinos and other specimens of abnormal coloration have been added a semi-albino specimen of Grevy's

Zebra (*Equus grevyi*), presented by A. B. Percival, Esq.; and a white Rook (*Corvus frugilegus*), presented by W. B. Gibbins, Esq.

Aves.

The remounting of specimens in the General Gallery has been continued, and the families Oxyrhamphidæ and Tyrannidæ have been nearly completed.

The entire collection of bird-skins has been rearranged in the cabinets to make room for the additions, some 70,000 in number, which had accumulated during recent years, and which could not be incorporated owing to the crowded state of the drawers. All these additions have now been registered and labelled and are rapidly being put away in their proper places. The number of incorporated specimens to be dealt with, amounting to about 700,000 skins and formerly occupying 320 cabinets, have been spread over 379 cabinets, now available; the extra cabinets utilised include 44 of the old type placed in the passage connecting the two bird rooms and 11 smaller top cabinets of a new type, specially designed to accommodate the larger Birds of Prey and Vultures.

The labour of this move, which entailed the shifting of almost every drawer, has been great, but the result is eminently satisfactory, and for the first time for years there is now ample room not only for the present vast collection but for any specimens likely to be added for many years to come.

A special new Catalogue has been prepared, and marked so as to show the exact position of each species, and it will soon be possible to find any specimen required without loss of time.

The total number of specimens in the skin collection of birds numbers nearly 800,000 specimens at the present time; in 1872 it was estimated by Dr. Sharpe at 20,000 skins.

In the collection of eggs, work has been continued, and a large number of additions have been incorporated, labelled, and neatly arranged in boxes filled with cotton-wool.

All the cabinets in the Bird Room have been carefully examined for moth, and camphor has been placed in every drawer where it was considered necessary.

The naming and relabelling of the Gould collection of Humming-birds has been completed.

Mr. D. A. Bannerman has given valuable assistance in working out various collections, in labelling the cabinets and drawers under the new arrangement, and in preparing a number of old collections for incorporation.

The Committee appointed by the Secretary of State for the Colonies to inquire into the question of the destruction of Plumage Birds, including Mr. C. E. Fagan, I.S.O., Dr. Harmer, and Mr. W. R. Ogilvie-Grant, to represent the Museum, has completed its investigation and has sent in its report.

By walling off a portion of the space in the Basement a new room has been provided for the better housing of the birds' skeletons, which hitherto have been far too crowded for convenience of work.

The more notable presents are the following:—From the Earl of Denbigh, C.V.O.; the collection formed by Thomas Pennant, consisting of 142 specimens of British Birds, including two Capercailzies, believed to be from Scotland and figured in Pennant's British Zoology (1766). From the Duke of Bedford, K.G.; a final collection of birds from Western China, including 167 specimens. From Mr. W. N. McMillan; a very valuable collection of birds formed for him by P. Zaphiro in Southern Abyssinia and including several new species and many rare birds. From Mr. A. B. Percival; a fine collection from the country north of the Guaso Nyiro and Mount Nyiro.

A valuable series of Birds collected at the lighthouse on the Island of Shaweishan off the coast of South China, during the Autumn migration, has been purchased.

The following Expeditions promise to yield important results:—Mr. A. F. R. Wollaston is at present engaged in making a second attempt to reach the Snow Mountains in Dutch New Guinea by way of the Oetakawa River. He is accompanied by Mr. C. B. Kloss, Curator of the Kuala Lumpur Museum, and a number of trained Dyak collectors, and it is confidently expected that large collections will soon reach England. Mr. Willoughby P. Lowe is accompanying Lieut. Cosens, of the Royal Dragoons, on a trip through an almost unknown part of East Africa and has already dispatched a large number of cases of specimens.

The work of systematic collecting in the Hebrides is being continued; and two gentlemen have been engaged, Mr. P. D. Montague in completing the inner islands, and Dr. David Anderson in working through the outer group. The results obtained in the more southern islands of the Inner Hebrides have been of so much interest, especially as regards Voles, Shrews and Mice, three of which are new, that it has been thought advisable to complete the examination of these groups of islands as soon as possible.

Domesticated Animals.

North Hall.—The classification and descriptions of some of the breeds of Sheep and Cattle have been somewhat modified and brought up to date; and a new and revised edition of the *Guide to Domesticated Animals* has been published.

The additions by presentation to the series of Domesticated Animals include the following:—A series of miniature models of Cattle, Sheep and Pigs made by G. Garrard in 1808, presented by the Earl of Ancaster; these are in white plaster, but in due course will be coloured to nature from the series of coloured prints, also by Garrard, of the animals from which they were modelled. A fine Guzerati Humped Bull, presented by the

Duke of Bedford, K.G.; head of Mysore Humped Cow, presented by the Zoological Society; a Tatarian Fat-Rumped Ram and two other Central Asiatic Sheep, as well as three skulls of Sheep, collected by D. Carruthers, Esq., and presented by H. J. Elwes, Esq., F.R.S.; an Arabian Long-tailed Sheep presented by Lt.-Col. Prall, Chief Medical Officer at Aden; head of Norfolk Ram, presented by J. D. Sayer, Esq.; skull and horns of Circassian Goat, presented by the Egyptian Government; Tibet Dog, presented by the Zoological Society; Chinese Huppa Dog, presented by the Hon. Mrs. Carnegie; a King Charles' Spaniel, presented by Mrs. Stephens; a Borzoi, the gift of Major S. P. Borman; head of Ibiza Greyhound, from Majorca, presented by Miss D. M. A. Bate; skull of Dachshund, presented by Capt. R. A. H. Barry.

Indian Runner Duck, presented by J. W. Walton, Esq.; Self-Black Archangel Pigeon, presented by H. W. Webb, Esq.

Reptilia and Batrachia.

All additions have been named and incorporated.

A number of skeletons have been prepared.

In the Reptile Gallery some progress has been made during the year in sanding the shelves of the cases containing the Snakes and Lizards, but other pressing work has prevented the completion of the task. No addition has been made to the exhibited series.

The *Guide to the Reptile Gallery* has been revised and partly rewritten, and a new edition is in the press.

Pisces.

As the services of a taxidermist have not been available no progress has been made with the exhibition series of Fishes.

Considerable progress has been made with a card catalogue of the collection, and some groups that have recently been studied have been arranged in accordance with this. Owing to lack of space, further rearrangement and expansion of the collection is, however, impossible for the present.

The additions have been registered and incorporated in the collection so far as its congested state has permitted.

The work of replenishing with spirit has been continued.

Progress has been made with the third volume of the Catalogue of African Freshwater Fishes, and several large collections of African Fishes have been worked out.

Tunicata.

Work in connection with the exhibition of a new series of Tunicata in the large new wall-case in the Shell Gallery has been begun.

Mollusca.

The work done in connection with the collection of Mollusca has been of a miscellaneous character. The collection of radulæ and other microscopic preparations has been arranged in proper sequence, and a manuscript catalogue of them prepared. Further progress has been made in the arrangement of the family Acmæidæ; the divisions of the genus *Dosinia* have been studied, and the species arranged in accordance; collections of Opisthobranchs from Japan, the South African Scalarias, a series of land and freshwater shells from Madagascar, and some species of the genera *Thais* and *Haliotis* from Japan, have been worked out. A presumed new species of *Crepidula* has been studied, and an account has been drawn up of some remarkable shell-growths supposed to have been taken from valves of *Tridacna*. A number of types and figured specimens from the Hanley and Pennant collections have been identified by comparison with the original figures and descriptions. The registration of the Norman collection of Arctic and Palæarctic Mollusca has been continued and the model illustrating "torsion" in Gastropoda and a table-case containing British Mollusca of economic interest have been placed on exhibition. A very large number of acquisitions from many localities have been mounted, registered and incorporated, a selection of the more striking specimens being placed in the exhibition cases.

Insecta.

In order to provide additional accommodation for cabinets in the Insect Room, an iron gallery has been fixed to the walls in Room H, but the work was only just completed at the end of the year. By the removal to this gallery of cabinets containing duplicates and other material not often required for reference, a certain amount of space will be set free for the expansion of the economic and other parts of the collection.

The need of additional working space, which is required not only for the members of the staff but also for the use of voluntary workers and students, has been greatly felt at all times during the year, and was especially noticeable for a short period following the International Congress of Entomology at Oxford, when a number of distinguished entomologists from abroad visited the Insect Room in order to study the collections there. At that time special efforts had to be made by the Assistants in charge of the collections, and with the kindly proffered help of Mr. C. O. Waterhouse, I.S.O., late Assistant Keeper, matters were arranged as satisfactorily as possible for the convenience of the visitors.

The chief addition to the Insect Room during the year has been the large and valuable collection of Lepidoptera bequeathed by the late Mr. Herbert J. Adams, and consisting of about 140,000 specimens arranged in 69 cabinets and 531 carton boxes. Sufficient space not being available in the Insect Room itself, these cabinets and boxes have been placed in the South West Basement Corridor, in convenient proximity to

the rest of the Lepidoptera. The cabinets have been numbered and labelled, and the preparation of an index to their contents has been put in hand.

The work of incorporating and arranging in cabinet drawers the large number of accessions waiting to be dealt with, has made considerable progress during the year; so much so that new cabinets provided were found to be not quite sufficient in number, and in consequence the expansion of the collections had in some cases to be suspended.

In the COLEOPTERA, the rearrangement of the Tenebrionidæ has been continued, many of the sub-families having been dealt with and all their accessions incorporated. Collections of unnamed specimens of many groups have been sent to specialists to be worked out, and upon their return have been incorporated and arranged as far as space permitted. Numerous species of the genus *Onthophagus* have been dealt with by M. Henri d'Orbigny, of the genus *Bembidium* by Dr. Netolitzky, of *Copris* by Prof. Gillet, of Aphodiinæ by Herr Adolf Schmidt, of Pselaphidæ by Major Broun, and of Clavicornia by M. Grouvelle. A consignment of South African Tenebrionidæ, worked out by Dr. Péringuey, has been returned and reincorporated in the collection; and a number of Australian Amarygminæ have been sent to be worked out by Mr. H. J. Carter, an authority upon that group. The Pythidæ and Pyrochroidæ have been rearranged and all accessions belonging to those families incorporated. A considerable number of Anthicidæ have been sent to Herr Vŏn Krekich-Strassoldo for examination and these have in part been named and returned. The Japanese Lamellicornia of the Lewis Collection have been incorporated, and a large number of East African beetles of the same group have been determined and added to the collection. Where the cabinet drawers were too congested to admit of these important additions, the genera contained in them have been expanded and rearranged. Many of the Longicornia received during the year have been determined and incorporated; species of the group have been identified for the Forest Research Institute at Dehra Dun, and duplicates retained for the Museum, and a small collection made on the Abor Expedition and sent by the Indian Museum has been similarly dealt with. A commencement has been made in sorting out into species, and determining, the very large and interesting series of Lycidæ from Africa presented by the Entomological Research Committee during the last two years —a series which in itself contains more species and a considerably larger number of specimens than that already in the Museum collection from the same part of the world. The dry collection of Coleopterous larvæ has been revised and rearranged; and a good deal of time has been given to the determination of beetles which have proved injurious to crops in the Colonies or which are otherwise of economic importance. Lieut.-Colonel F. Winn Sampson has again, as in previous

years, voluntarily devoted a great part of his time to naming and arranging the Scolytidæ.

In the HYMENOPTERA the rearrangement of the Sphegidæ (Sand wasps) has been completed by Mr. R. E. Turner, who has continued to devote much time to this order. The rearrangement of the Apidæ has been proceeded with, and all accessions incorporated so far as the work has gone; the sub-families Megachilinæ and Melittinæ have been completed and the Nomadinæ commenced. A considerable amount of time has been devoted to the large collection of Apidæ and Vespidæ collected by Mr. S. A. Neave in East Africa. Series of undetermined species have been sent to foreign specialists on loan; the largest consignments are in process of identification by Dr. Maidl (Vienna) and Dr. Edvardo Zavattari (Turin). Mr. Morley has continued work on the rearrangement of the Parasitic Hymenoptera (Ichneumonidæ) and Part 1 of the "Revision of the Ichneumonidæ" was published during the year.

In the NEUROPTERA much material has been sent to Señor Longinos Navás of Saragossa for identification, including unnamed species of Chrysopidæ, Mantispidæ, Ascalaphidæ and Myrmeleonidæ. Other loans have been sent out to Dr. Ris (Odonata) and the Rev. A. E. Eaton (Ephemeridæ).

The collection of the ANOPLURA and MALLOPHAGA has been very much extended by consignments presented from time to time during the year by the Hon. N. C. Rothschild and by the Entomological Research Committee. The Anoplura and a portion of the Mallophaga have been incorporated and the collection arranged. The dry collection and most of the species represented by specimens in spirit have been duplicated by microscopic slides. The work of mounting Denny's valuable types is proceeding. A good deal of time has been devoted to exotic and particularly African parasites. The Hon. N. C. Rothschild has generously continued to make provision for a preparator engaged in mounting slides and attending to the spirit specimens.

The RHYNCHOTA have received a considerable addition by the purchase of another instalment of the Distant collection. The incorporation of this collection has been proceeded with; much work has also been done on Oriental Homoptera; and a report on the collection made during the expedition sent out by the British Ornithologists' Union to Dutch New Guinea has been published.

In the LEPIDOPTERA the family Satyridæ and the Nymphalid sub-family Ithomiinæ have been considerably extended and all accessions incorporated—chiefly the Godman and Salvin and Hewitson collections, necessitating a large amount of rearrangement and general revision of the collections.

Mr. South has continued work upon the Lycænidæ, having incorporated the whole of the Godman and Salvin and Hewitson Lycænidæ and most of the more recent accessions;

and he has made considerable progress in transferring the Hesperidæ to the new pattern cabinets, at the same time incorporating all accessions.

During the year 1912 the text of Volume XII. of the Catalogue of Moths has been passed through the press, and will be published in January, while almost the whole of Volume XIII. has been prepared. The greater part of the Noctuid sub-family Catocalinæ and of the Geometrid sub-family Geometrinæ have been rearranged, and the Pyralid sub-family Epipaschianæ has been arranged.

In the Tineina the revision of the Gelechiadæ, Ethmiadæ, Blastobasidæ, Stenomidæ, Aegeriadæ, Arrhenophanidæ, Sparganothidæ, Eucosmidæ, Tortricidæ, etc., has been continued in connection with work on the Neotropical genera of these families, and the collection of slides has been augmented. The transference of the British series of Tineina to other cabinets has been completed; the general collection of Aegeriadæ has been reset and considerable progress has been made in remounting and rearranging the specimens in new cabinets. Various species of economic interest have been determined.

In the DIPTERA the working out of the African Tabanidæ has been continued, and a considerable amount of new material, presented chiefly by the Entomological Research Committee (now the Imperial Bureau of Entomology), has been incorporated; descriptions of the new species have been published in the papers mentioned below. The specimens required by the Museum have been selected from a collection of Tabanidæ made several years ago by Mr. S. A. Neave, in N.E. Rhodesia.

The African Blood-sucking Ceratopogoninæ (Family Chironomidæ) have been subjected to revision, and descriptions of new species have been published.

The General Catalogue of Asilidæ has been brought down to the year 1910, by the entering of additions.

A large collection of Tsetse-Flies (*Glossina*) from the Congo Free State, received for study from the Musée Royal D'Histoire Naturelle de Belgique, has been determined, and the specimens required by the Museum have been selected.

A small collection of Diptera from Southern Algeria, recently presented, has been partly worked out, and in connection therewith the material in the Museum collection belonging to the genera *Anastœchus, Usia,* and *Cytherea* (Family Bombyliidæ) has been re-determined and rearranged.

A considerable number of accessions belonging to various Families have been determined and incorporated.

A pamphlet on the House-Fly in relation to disease has been prepared (for publication by the Museum).

During the year one of the principal additions to the collections has been a further large consignment of British Diptera, under the Verrall bequest, bringing the total up to

11,650 specimens. Further consignments of Diptera from the Seychelles Islands have been received from Prof. J. Stanley Gardiner, F.R.S. It has been impossible, up to the present, to do very much towards the incorporation of these collections. Other large collections which have been received during the year and for the most part incorporated are:—British Diptera from Lieut.-Colonel Yerbury (over 1,000 specimens); Culicidæ of Malaya from Dr. G. F. Leicester (about 800 specimens, including a large number of types) and Culicidæ from the Gold Coast, British East Africa, etc., from the Entomological Research Committee.

Much time has been given to the expansion of the general collection of Culicidæ, and to the determination and arrangement of the British Mycetophilidæ; this work is now almost completed.

Entomological Research Committee.

Owing to the progress and extension of the important work carried on by the Entomological Research Committee of the Colonial Office, which has now become the Imperial Bureau of Entomology, the two rooms provided for the use of the Scientific Secretary of the Committee and his Assistants have no longer sufficed to meet all their requirements, and the Committee have had to rent additional rooms outside the Museum. Although it is much to be regretted that inconvenience to the Committee should result from lack of available accommodation in the Museum, every effort has been made to facilitate their work, which is still largely conducted within the Museum.

One result of the active work of the Committee has been the addition to the Insect Room collections of over 80,000 specimens during the year. A considerable number of these had been worked out and named before being handed over to the Museum, amongst them being several species of economic importance and a good many valuable type-specimens. The vast majority of the specimens have been set and labelled by the preparators at work in the Insect Room, and have thus been made available for study. A good many have been incorporated in the general collection, and some have been sent to specialists to be worked out. Much of the material presented by the Committee will prove extremely useful for the study of distribution and variation.

Myriopoda and Arachnida.

Part of the dry collection of Arachnida has been arranged and relabelled, and the collections of Ticks have been rearranged. Numerous accessions have been incorporated into the named collections, and reports on some of the more interesting forms have been published. A model of a Tick (*Amblyomma hebræum*) has been prepared for exhibition.

Peripatus.

The collection, which is fully determined, has been rearranged, and is now more accessible.

Crustacea and Pycnogonida.

In the exhibited series of Crustacea a coloured drawing from living British specimens of the Fairy Shrimp (*Chirocephalus diaphanus*) has been prepared and placed in the Gallery.

In the Crustacea Room the whole of the spirit collection has been overhauled, and the bottles, about 13,500 in number, have been cleaned and refilled. Of the Norman collection, received in 1911, 19,177 specimens have been registered, a large number of tubes refilled, and faulty corks replaced. The Budde-Lund collection of Woodlice, received during the year, has been placed in bottles, and arranged in systematic order, in preparation for labelling and registration. A large number of other accessions have been registered and incorporated.

Echinoderma.*

The rearrangement of the dried collection of Echinoderms, by which space has, it is hoped, been gained for the systematic incorporation of accessions for some years, has been completed, and an index has been made to the drawers. Unfortunately there is not now the space to arrange accessions to the spirit-collection systematically; and much trouble must be expected in finding specimens asked for by students. Most of the specimens obtained during the year have been determined, and all have been incorporated.

Worms.

Dr. J. H. Ashworth's "Catalogue of the Arenicolidæ" has been revised and passed through the press. The MS. list of Gephyrea has been added to, and brought up to date. A MS. list of the species of Chætognatha has been prepared, but the specimens in the collection have not yet been catalogued: attention has been given to the collection of Nematode Worms, and the nomenclature is gradually being brought up to date.

A specimen of "measly pork" better than that at present exhibited has been mounted, and will be shown as soon as a descriptive label has been prepared.

As it was found that long worms in tubes suffered from exposure to dirt, a closed cabinet has been devised, which affords room for additions.

The systematic rearrangement of the collection of microscopic slides has been continued.

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* The Assistant in charge of this and other groups has edited the Reports on the National Antarctic ("Discovery") Expedition, 1901–4, the sixth and last volume of which has been published during the year.

A better type of exhibition case has been supplied for worms, and specimens have been arranged in it.

Polyzoa.

The Norman collection of Polyzoa, contained in 1,728 glass-topped boxes and in a slide cabinet, has been registered, care being taken to enter in the register all the information on all the labels, there being usually more than one label in each box.

Anthozoa.

The exhibition cases have been revelveted.

A very large specimen of the white variety of *Corallium secundum* has been mounted and exhibited.

Progress has been made with the determination of the specimens in the collection of Pennatulids, and nearly all the specimens of Anthozoa added during the year have been named, and have been incorporated in their systematic position.

Hydrozoa.

The rearrangement and registration of the Norman collection of Hydrozoa has been begun.

Porifera and Protozoa.

With the aid of a grant from the Royal Society Mr. Kirkpatrick has continued his investigation of *Merlia normani*, a siliceous sponge with a calcareous skeleton. He has arrived at novel conclusions with regard to the mode of development of the calcareous part of the skeleton.

II.—*Duplicates and Exchanges.*

(*a*) *Duplicates.*

Duplicates have been distributed among museums, scientific institutions, etc., as follows :—

Mammalia.—Friends' Foreign Mission Association ; Lisbon Museum ; and Royal Normal College for the Blind, Norwood.

Duplicates have been lent to the Whitechapel Art Gallery and to the Salvation Army.

Aves.—Friends' Foreign Mission Association ; Salford Museum ; Royal Normal College for the Blind.

Reptilia, *Batrachia.*—Friends' Foreign Mission Association.

Pisces.—Friends' Foreign Mission Association ; Dr. W. S. Bruce ; and Professor W. C. M'Intosh, F.R.S.

Pterobranchia.—Birkbeck College, London.

Mollusca.—Friends' Foreign Mission Association.

Insecta.—Royal Scottish Museum, Edinburgh ; Royal Albert Memorial Museum, Exeter; Haslemere Educational Museum ; Friends' Foreign Mission Association ; London County Council; Parkes Museum, Royal Sanitary Institute, London ; Manchester Museum. Duplicates have also been sent to the following gentlemen, who have assisted in naming specimens :—Vicomte R. du Buysson, Dr. R. Gestro, Dr. J. J. Gillet, M. Ant. Grouvelle, Herr F. Hendel, Herr Hans von Krekich-Strassoldo, Señor R. P. Longinos Navás, S.J., Dr. Fr. Netolitzky, Dr. F. Ohaus, M. Henri d'Orbigny, Herr Heinrich Prell, and Surgeon-Major A. Sicard.

Crustacea.—Warrington Municipal Museum ; Professor C. Chilton.

Echinoderma. — Friends' Foreign Mission Association ; Professor W. C. M'Intosh, F.R.S.

Worms.—Friends' Foreign Mission Association.

Polyzoa.—Professor W. C. M'Intosh, F.R.S.

Cœlenterata.—Professor W. C. M'Intosh, F.R.S.

Porifera.—Professor W. C. M'Intosh, F.R.S.

(*b*) *Exchanges.*

Exchanges have been made with the following institutions and individuals :—

Mammalia.—With the Königl. Zoologisches Museum, Berlin ; the Buitenzorg Museum ; the University Museum of Zoology, Cambridge ; the Naturhistorisches Museum, Hamburg ; the Istituto Zoologico, Naples ; the Perth Museum, Western Australia ; the Musée du Congo Belge, Tervueren ; and the United States National Museum, Washington (Anthropology).

Aves. — With the Muséum d'Histoire Naturelle, Paris ; the American Museum of Natural History, New York ; Mr. H. J. Elwes, F.R.S. ; and Mr. G. M. Mathews.

Reptilia and Batrachia.—With the Bristol Museum and Art Gallery ; the Museum of Comparative Zoölogy, Cambridge, Mass. ; the University of Turin ; and Dr. F. Werner.

Pisces.—With the University Museum of Zoology, Cambridge; the Muséum d'Histoire Naturelle, Paris; Professor Bashford Dean ; Professor Fr. Guitel ; and Professor Einar Lönnberg.

Pterobranchia.—With the Naturhistoriska Riksmuseum, Stockholm.

Invertebrates (Miscellaneous Antarctic).—With Dr. W. S. Bruce.

Mollusca.—With Mr. H. B. Preston.

Insecta.—With the South Australian Museum, Adelaide ; the Königl. Zoologisches Museum, Berlin ; the Natural History Museum, Leyden ; and with Dr. Hans Brauns, Dr. A. Fenyes, Herr Carl Frings, Dr. J. J. Gillet, Mr. O. E. Janson, Dr. Kurt Lampert, Mr. F. Mason, Dr. Fr. Netolitzky, M. Maurice

Pic, the Hon. Walter Rothschild, F.R.S., Herr Adolf Schmidt, Dr. A. von Schulthess, and Professor Dr. Yngve Sjöstedt.

Myriopoda.—With Professor F. Silvestri.

Arachnida.—With the Indian Museum, Calcutta; and with Professor K. Kraepelin.

Crustacea.—With the Australian Museum, Sydney.

Cœlenterata.—With the Indian Museum, Calcutta; the University Zoological Museum, Copenhagen; and with Professor S. J. Hickson, F.R.S.

III.—*Departmental Library.*

The acquisitions for the Departmental Library during the year, obtained by purchase, presentation and exchange, consist of 111 separate works in 119 volumes, and 2,097 parts of periodicals and works in progress.

Four hundred and twenty-one volumes, including those belonging to the Walsingham Library, have been bound.

The work of collating, stamping, press-marking and entering in the Catalogue all additions has been performed as usual.

The Attendant in the Library, with the aid and supervision of an Assistant, has checked all the entries of Zoological Works in that portion of the General Catalogue of Books which has been printed during the year.

Among the donations two are worthy of special mention:—The Birds of Australia, Vol. 1, part 6, and Vol. 2, parts 1–4; presented by G. M. Mathews, Esq. One hundred and sixty-nine reprints of papers by various authors on Zoological subjects but chiefly entomological; presented by R. C. Wroughton, Esq.

List of Donors to the Departmental Library during the year 1912:—

Adams, F. B.
Agricultural Experiment Station, Berkeley, California.
Agricultural Experiment Station, Fayetteville, Arkansas.
Agricultural Research Institute, Pusa, Behar, British India.
Agriculture and Fisheries, London, Board of.
Anthropological Society, Bombay.
Asamblea Nacional, Republia del Salvador, Central America.
Australian Museum, Sydney.
Avicultural Society, London.
Barnes, W.
Blanc, Prof. H.
Botanical Gardens Department, Singapore.
Breitfuss, L. L.
Bresslau, Prof. E.
British Ornithologists' Union.
Colonial Office, Under Secretary of State.
Committee for the Study of Malaria in India.
Conchological Society of Great Britain and Ireland.
Connolly, Major M.

Conseil permanent pour l'Exploration de la Mer.
Crown Agents for the Colonies, London.
Département de l'Agriculture, de l'Industrie et du Commerce, aux Indes Nëerlandaises, à Buitenzorg (Java).
Department of Agriculture, Edmonton, Alberta, Canada.
Department of Agriculture, Egypt.
Department of Agriculture, Fiji.
Department of Agriculture, Ottawa, Canada.
Department of Agriculture, Sidney, N.S.W.
Department of Agriculture, Victoria.
Department of Agriculture, Wellington, New Zealand.
Department of Fisheries, Sydney, N.S.W.
Direction Générale du Ministère des Colonies, Bruxelles.
Dove Marine Laboratory, Cullercoats, Northumberland.
École de Médicine Tropicale, Junqueira, Lisbonne, Portugal.
Entomological Research Committee, London.
Entomological Society, London.
Entomological Society, Ontario, Canada.
Essex Field Club.
Field, Editor of the.
Fishery Board for Scotland.
Fishery Department, Calcutta.
Foreign Bird Club.
Froggatt, W. W.
Hampson, Sir G. F., Bart.
Hawaiian Sugar Planters' Association.
Herdman, Prof. W. A., F.R.S.
Hoyle, Dr. W. E.
Imperial Department of Agriculture, West Indies.
India, Secretary of State for.
Indian Museum, Calcutta.
Janet, Mons. C.
Jepson, F. P.
Kofoid, Prof. C. A.
Kommissionen för Havundersögelser, Kjöbenhavn.
Laboratorio di Zoologia Generale e Agraria della R. Scuola Superiore d'Agricoltura in Portici.
Linnean Society, London.
Longstaff, Dr. G. B.
Madras Fisheries Bureau.
Miers, Miss E.
Minister of State for Trade and Customs, Melbourne.
Ministero d'Agricoltura, Industria e Commercio, Roma.
Musée Zoologique de l'Académie Imp. St. Pétersbourg.
Museum of Comparative Zoölogy, Harvard College.
Nederlandische Entomologische Vereeniging.
Neue Zoologische Gesellschaft in Frankfurt a. Main.
New Mexico College of Agriculture and Mechanic Arts.
Norman, Canon A. M., F.R.S.
Outes, F. F.
Ridley, H. N., F.R.S.
Royal Sanitary Institute, London.

Salmon and Trout Association, London.
Seabra, Señor A. F. de.
Severin, Mons. G.
Sherborn, C. Davies.
Skinner, Prof. H.
Société Entomologique de Belgique.
Société Entomologique de France.
Société Entomologique de Russie.
South African Ornithologists' Union.
Superintendent of Government Printing, Calcutta, India.
Thomas, O., F.R.S.
Thompson, Dr. J. C.
Townsend, C. H.
Ungarische Ornithologische Centrale, Budapest.
United States Bureau of Fisheries, Washington.
United States Department of Agriculture, Washington.
University of Pennsylvania.
University of Wyoming, Laramie, Wyoming.
Van Denburgh, J.
Wefelscheid, Dr. H.
Wellcome Tropical Research Laboratories, Gordon Memorial College, Khartoum.
Wroughton, R. C.
Zoological Gardens, Giza, Egypt.
Zoological Museum, Copenhagen.
Zoological Society, London.
Zoological Society, New York.
Zoological Society, Philadelphia.
Zoological Society, Tokyo.
Zoologische Staatssammlung, München.
Zoologisches Museum, Berlin.

IV.—*Publications.*

In addition to the official Catalogues and other volumes published by the Trustees (*see* pp. 106–7), various reports and descriptive papers have been prepared in connection with the different branches of the collection; and have been published for the most part in scientific journals.

For the convenience of reference the following list is appended:—

Mammalia.

By Oldfield Thomas, F.R.S.:—

"On Small Mammals from the Lower Amazon." Ann. Mag. Nat. Hist. (8) ix., p. 84.
"Notes on *Phascogale* and *Chætocercus*." *Ib.*, p. 91.
"Revised determination of two Far Eastern species of *Myospalax*." *Ib.*, p. 93.
"A new Genus of Opossums and a new Tuco-tuco." *Ib.*, p. 239.
"Mammals of the Panyam Plateau, Northern Nigeria." *Ib.*, p. 269.

MAMMALIA—*continued.*

"Two new Asiatic Voles." *Ib.*, p. 348.

"The Duke of Bedford's Zoological Exploration of Eastern Asia.—XV. On Mammals from the Provinces of Szechwan and Yunnan, Western China."
Proc. Zool. Soc., 1912, p. 127.

"On Mammals from Central Asia collected by Mr. Douglas Carruthers." Ann. Mag. Nat. Hist. (8) ix., p. 391.

"Three Small Mammals from South America." *Ib.*, p. 408.

"Descriptions of Two Giant Rats from New Guinea, presented to the British Museum by the Hon. Walter Rothschild, F.R.S. Novitates Zoologicæ, XIX., p. 91.

"On Insectivores and Rodents collected by Mr. Kingdon Ward in N.W. Yunnan."
Ann. Mag. Nat. Hist. (8) ix., p. 513.

"List of a Third Collection of Mammals from Panyam, North Nigeria, presented by the Rev. G. T. Fox."
Ib., p. 683.

"New Species of *Crocidura* and *Petaurista* from Yunnan."
Ib., p. 686.

"The Races of European Wild Swine."
Proc. Zool. Soc., 1912, p. 390.

"Two new Genera and a new Species of Viverrine Carnivora." *Ib.*, p. 498.

"The Generic Names *Cercomys* and *Proechimys*."
Proc. Biol. Soc. Wash., XXV., p. 115.

"The Technical Name of the Tasmanian Devil."
Ib., p. 116.

"Mammals from the Ja River, Cameroons."
Ann. Mag. Nat. Hist. (8) x., p. 41.

"Small Mammals from South America." *Ib.*, p. 44.

"A new Vespertilionine Bat fron Angola." *Ib.*, p. 204.

"Two new Species of *Nasua*." *Ib.*, p. 228.

"Two New West African Mammals." *Ib.*, p. 280.

"On a Collection of Small Mammals from the Tsin-ling Mountains, Central China, presented by Mr. G. Fenwick Owen to the National Museum." *Ib.*, p. 395.

"New Bats and Rodents from South America."
Ib., p. 403.

"Two new Races of Mongoose." *Ib.*, p. 588.

"New *Centronycteris* and *Ctenomys* from South America." *Ib.*, p. 638.

By GUY DOLLMAN:—

"A new Gerbil from British East Africa."
Ann. Mag. Nat. Hist. (8) ix., p. 219.

"Seven new African Dormice." *Ib.*, p. 312.

"A new Snub-Nosed Monkey."
Proc. Zool. Soc., 1912, p. 503.

"A new Elephant Shrew from the Island of Zanzibar."
Ann. Mag. Nat. Hist. (8) x., p 130.

"Mammals of the Oban District." Included in "In the Shadow of the Bush," by P. Amaury Talbot. 1912. Appendix I., p. 465.

MAMMALIA—*continued.*

By R. C. WROUGHTON :—

"Some new Indian Rodents."
Journ. Bombay Nat. Hist. Soc., xxi , p. 338.

"Bombay Natural History Society's Mammal Survey of India. Report No. 1, Kandesh Collection. *Ib.*, p. 392.

"Some new Indian Mammals." *Ib.*, p. 767.

"Bombay Natural History Society's Mammal Survey of India. Report No. 2, Berar Collection. Report No. 3, Cutch Collection. Report No. 4, Nimar Collection. *Ib.*, p. 820.

"Bombay Natural History Society's Mammal Survey of India. Report No. 5, Dharwar Collection."
Ib., p. 1170.

By R. LYDEKKER, F.R.S. :—

"On the Milk-Dentition of the Ratel."
Proc. Zool. Soc., 1912, p. 221.

"The North Rhodesian Giraffe." *Ib.* (4), p. 771.

"The Bornean Bantin." *Ib.*, p. 902.

"Note stating that *Gazella hayi* = *Gazella fuscifrons*."
Ib., p. 911.

By Dr. KNUD ANDERSEN :—

"A new *Nyctimene* from New Guinea."
Ann. Mag. Nat. Hist. (8), ix., p. 95.

"Brief Diagnoses of eight new *Petalia*, with a list of the known forms of the Genus." *Ib.*, x., p. 546.

"A new *Cynopterus* from Borneo." *Ib.*, p. 640.

By R. E. DRAKE-BROCKMAN, M.R.C.S., L.R.C.P., F.Z.S. :—

"Two new Mongooses from Somaliland." *Ib.*, p. 612.

By J. LEWIS BONHOTE, M.A., F.L.S., F.Z.S. :—

"On a further Collection of Mammals from Egypt and Sinai." Proc. Zool. Soc., 1912, p. 224.

By W. P. PYCRAFT :—

"The Infancy of Animals."

Aves.

By W. R. OGILVIE-GRANT :—

"British Game Birds and Wild Fowl" (Natural History of each species).
London and Counties Press Association, 1912.

"On the Eggs of Certain Birds of Paradise."
Ibis, 1912. p. 112.

"Notes on *Laniarius mufumbiri*." *Ib.*, p. 332.

"On the Birds of Ngamiland." *Ib.*, p. 535.

"Further Notes on the Birds of the Island of Formosa."
Ib., p. 643.

"Notes on the Birds collected by the B. O. U. Expedition to Dutch New Guinea." Appendix A. to A. F. R. Wollaston's "Pygmies and Papuans," pp. 263–302 (1912) (*cf.* Ibis, 1913, pp. 76–113).

"On an immature Blackcock (*Lyrurus tetrix*) in partial female plumage." Bull. B. O. C., xxix., p. 60.

AVES—*continued.*

"On a new species of Weaver-Finch (*Pytelia chubbi*) from British East Africa." *Ib.*, p. 64.
"On the Australian species of *Corvus*." *Ib.*, p. 70.
"On Birds requiring protection in the Fanning Group of Islands." *Ib.*, p. 101.
"On the Nestling of the Thick-billed Lark (*Rhamphocorys clot-bey*)." *Ib.*, p. 104.
"On new species of Birds from Mount Arizan, Formosa." *Ib.*, p. 107.
"On the unknown breeding-plumage of the Common Partridge." *Ib.*, p. 110.
"On a new species of Flycatcher (*Erythrocercus nyasæ*)." *Ib.*, p. 115.
"On a new species of Scops-Owl (*Scops spurrelli*) from Ashanti." *Ib.*, p. 116.
"On rare Francolins from N.E. Africa." *Ib.*, p. 116.
"Note on *Abrornis albigularis formosana*." Bull, B. O. C., xxxi., p. 14.
"On a new sub-species of Pheasant (*Phasianus strauchi chonensis*)." *Ib.*, p. 16.
"On a new species of Seed-eater (*Poliospiza elgonensis*) from Mount Elgon." *Ib.*, p. 17.
"On the distinctive characters of the Common and Barrow's Golden-Eye." *Ib.*, p. 18.
Bulletin of the Ornithologists' Club. Volumes xxix., xxx. (Report on the Immigration of Summer-Residents) and xxxi. (edited).
"On a new sub-species of Lark (*Calandrella sclateri capensis*) from South Africa." Annals of the South African Museum, 1912.
"Breeding and Eclipse-plumage of the Common Partridge." British Birds, p. 234.

By C. CHUBB (and LORD BRABOURNE):—

"Notes on Guiana Birds." Ann. Mag. Nat. Hist. (8), x., p. 261.
"A List of the Birds of South America." The Birds of South America, Vol. I.

By W. P. PYCRAFT:—

"The Game Birds." The British Bird Book.
"The Anseres." The British Bird Book.

Reptilia and *Batrachia.*

By G. A. BOULENGER, F.R.S.:—

"A Vertebrate Fauna of the Malay Peninsula." "Reptilia and Batrachia," London, 1912.
"Some Remarks on the Habits of British Frogs and Toads." Proc. Zool. Soc., 1912, p. 19.
"Descriptions of new African Batrachians in the British Museum." Ann. Mag. Nat. Hist. (8), x., p. 140.

REPTILIA—*continued.*

Descriptions of new Reptiles from the Andes of South America, preserved in the British Museum."
Ib., p. 420.

'Descriptions of new Batrachians from the Andes of South America, preserved in the British Museum."
Ib., p. 185.

'Missione per la frontiera Italo-etiopica sotto il comando del Capitano Carlo Citerni." "Reptilia and Batrachia."
Ann. Mus. Genova (3), v., p. 329.

'On some Tree Frogs allied to *Hyla cærulea*, with Remarks on noteworthy secondary sexual characters in the Family Hylidæ."
Zool. Jahrb., Suppl. xv., 1., p. 211.

'Observations sur l'accouplement et la ponte de l'Alyte accoucheur, *Alytes obstetricans*."
Bull. Acad. Belge, 1912, p. 570.

Pisces.

By G. A. BOULENGER, F.R.S. :—

' Poissons recueillis dans la Région du Bas-Congo par M. le Dr. W. J. Ansorge."
Ann. Mus. Congo, Zool. ii., Fascic. 3, p. 27.

" A Synopsis of the Fishes of the genus *Mastacembelus*."
Journ. Ac. Philad. (2), xv., p. 197.

" On a Collection of Fishes made by Mr. A. Blayney Percival in British East Africa to the east of Lake Baringo." Proc. Zool. Soc., 1912, p. 672.

" Description of a new Fish from British Central Africa."
Ann. Mag. Nat. Hist. (8), ix., p. 519.

" Description of three new African Cichlid Fishes of the genus *Tilapia*, preserved in the British Museum."
Ib., x., p. 138.

" Description of a new Cichlid Fish from the Lower Niger." *Ib.*, p. 263.

" Description of two new Fishes from the Nile System."
Ib., p. 601.

" Description d'un Poisson nouveau du genre *Haplochilus* provenant du Katanga." Rev. Zool. Afr., ii., p. 47.

By C. TATE REGAN :—

" Descriptions of new Fishes of the family Loricariidæ in the British Museum Collection."
Proc. Zool. Soc., 1912, p. 666.

" Philippine Sharks." Science, 36, p. 81.

" The Anatomy and Classification of the Symbranchoid Eels." Ann. Mag. Nat. Hist. (8), ix., p. 387.

" The Osteology of the Teleostean Fishes of the Order Opisthomi." *Ib.*, p. 217.

" The Classification of the Teleostean Fishes of the Order Pediculati." *Ib.*, p. 277.

" A Synopsis of the Myxinoids of the genus *Heptatretus* or *Bdellostoma*." *Ib.*, p. 534.

PISCES—*continued.*

"Descriptions of new Cichlid Fishes from South America in the British Museum." *Ib.*, p. 505.

"Description of a new Characid Fish from the Amazon." *Ib.*, p. 682.

"A Revision of the South American Siluroid Fishes of the genus *Corydoras*, with a list of the specimens in the British Museum (Natural History)." *Ib.*, x., p. 209.

"The Classification of the Blennioid Fishes." *Ib.*, p. 265.

"Description of two new Eels from West Africa, belonging to a new genus and family." *Ib.*, p. 323.

"The Anatomy and Classification of the Teleostean Fishes of the Order Lyomeri." *Ib.*, p. 347.

"The Osteology and Classification of the Teleostean Fishes of the Order Apodes." *Ib.*, p. 377.

"A Revision of the South American Characid Fishes of the genera *Chalceus*, *Pyrrhulina*, *Copeina*, and *Pogonocharax*." *Ib.*, p. 387.

"A Revision of the Pœciliid Fishes of the genera *Rivulus*, *Pterolebias*, and *Cynolebias*." *Ib.*, p. 494.

"The Anatomy and Classification of the Teleostean Fishes of the Order Discocephali." *Ib.*, p. 634.

"The Caristiidæ, a family of Berycomorphous Fishes." *Ib.*, p. 637.

"Sexual Differences in the Pœciliid Fishes of the genus *Cynolebias*." *Ib.*, p. 641.

"New Fishes from Aldabra and Assumption, collected by Mr. J. C. F. Fryer." Trans. Linn. Soc., xv., Pt. 2, p. 301.

"The Twaite Shad in Killarney Lakes." Irish Naturalist, xxi., p. 63.

Mollusca.

By E. A. SMITH, I.S.O.:—

"Note on a large specimen of *Anodonta cygnea*." Proc. Malac. Soc., x., p. 4.

"Note on *Pleurotoma* (*Clionella*) *bipartita*, Smith." *Ib.*, p. 53.

"On the generic name to be applied to the *Venus islandica*, Linn." *Ib.*, p. 105.

"On the survival of a Miocene Oyster in Recent Seas." Records Geol. Survey India, xlii., p. 1.

By G. C. ROBSON:—

"On a case of presumed viviparity in *Limicolaria*." Proc. Malac. Soc., x., p. 32.

"On a new genus and species of marine parasitic Gastropod from the Indian Region," by H. B. Preston —Appendix. Records Indian Museum, vii., p. 127.

Insecta.

By G. J. Arrow:—

"Some new Species of the Lamellicorn Genus *Anomala* from Sikkim, North India."
Ann. Mag. Nat. Hist. (8), ix., p. 72.

"On a new Species of Melolonthid Beetle (*Phytalus smithi*) destructive to Sugar-Cane." *Ib.*, p. 455.

"A Synoptical Revision of the Coleopterous Genus *Hexodon* (Dynastinæ)." *Ib.*, p. 594.

"Descriptions of some new Burmese Species of Ruteline Coleoptera belonging to the Genus *Anomala*."
Ib., x., p. 327.

By K. G. Blair:—

"Descriptions of new Species of Pyrochroidæ."
Ib., ix., p. 527.

By Sir G. F. Hampson, Bart.:—

"The Moths of India."
Journ. Bomb. Nat. Hist. Soc., xxi., pp. 411, 878, 1222.

"Descriptions of new Species of Pyralidæ of the subfamily Pyraustinæ."
Ann. Mag. Nat. Hist. (8), ix., pp. 149, 242, 321, 433, 625; x., pp. 1, 557.

"Descriptions of new African Agaristidæ in the British Museum." *Ib.*, x., p. 609.

By J. Hartley Durrant:—

"Notes on Tineina bred from Cotton-bolls."
Bull. Ent. Res., iii., p. 203.

By Eustace Ralph Bankes, edited by J. Hartley Durrant:—

"Stray Notes on *Monopis crocicapitella*, Clms., and *M. ferruginella*, Hb." Ent. Mo. Mag., xlviii., p. 39.

"Occurrence in England of *Coleophora trigeminella*, Fuchs, a Species new to the British List, with notes on *C. kroneella*, Fuchs, and *C. badiipennella*, Dup."
Ib., p. 51.

By Lord Walsingham:—

The publication of the following series of descriptions has been continued*:—

"Biologia Centrali-America. Zoologia. Insecta. Lepidoptera Heterocera. Tineina."
Vol. IV., pp. 113–168, figs. 24–28, pls. 4 and 5 (pp. 169–224, figs. 29 and 30, pl. 6 - *in the press*).

By C. J. Gahan:—

"A new Species of Phasmidæ of the Genus *Prisopus*, considered especially in reference to the supposed aquatic habits of the Genus."
Entomologist, xlv., p. 49.

* Prepared for publication by Mr. Durrant, by permission of the Trustees.

INSECTA—*continued.*

By GEOFFREY MEADE-WALDO :—

"An Enumeration of the Hymenoptera (Families Vespidæ, Apidæ, and Tenthredinidæ) collected in Dutch New Guinea by the Expedition of the British Ornithologists' Union." Ann. Mag. Nat. Hist. (8), ix., p. 446.

"Notes on the Apidæ (Hymenoptera) in the Collection of the British Museum, with Descriptions of new Species." *Ib.*, x., p. 461.

By ROWLAND E. TURNER :—

"Studies in the Fossorial Wasps of the Family Scoliidæ, Sub-families Elidinæ and Anthoboscinæ." Proc. Zool. Soc., 1912, p. 696.

"A Monograph of the Wasps of the Genus *Cerceris*, inhabiting British India." Journ. Bomb. Nat. Hist. Soc., xxi, pp. 476, 794.

"A Revision of the Australian Species of the Genus *Cerceris*." Proc. Linn. Soc. N.S. Wales, xxxvi., p. 664.

"Notes on Fossorial Hymenoptera." Ann. Mag. Nat. Hist. (8), ix., p. 194, 337, 410; x., pp. 48, 361, 533.

By E. E. AUSTEN :—

"New Genera and Species of Tabanidæ in the British Museum (Natural History)." Ann. Mag. Nat. Hist. (8), ix., p. 1.

"New African Phlebotomic Diptera in the British Museum (Natural History)—Part VIII. Tabanidæ (continued)." *Ib.*, p. 353.

"A new Species of *Tabanus* from German East Africa, in the British Museum (Natural History)." *Ib.*, x., p. 240.

"A new Species of *Stygeromyia* (Family Muscidæ, Subfamily Stomoxydinæ) from the East Africa Protectorate." Bull. Ent. Res., iii., p. 97.

"Notes on African Blood-sucking Midges (Family Chironomidæ, Sub-family Ceratopogoninæ), with descriptions of new Species." *Ib.*, p. 99.

"New African Tabanidæ—Part I." *Ib.*, p. 113.
" " " Part II." *Ib.*, p. 329.
" " " Part III." *Ib.*, p. 399.

"A new Species of *Hippobosca* from Northern Rhodesia." *Ib.*, p. 417.

By F. W. EDWARDS :—

"A Key to the Australian Species of *Ochlerotatus* (Culicidæ)." Ann. Mag. Nat. Hist. (8), ix., p. 521.

"Description of a new Species of Blepharoceridæ from South Africa." *Ib.*, p. 633.

"*Lygistorrhina urichi*, a new Mycetophilid from Trinidad." *Ib.*, x., p. 203.

"Two Diptera (Cecidomyiidæ) new to Britain." Ent. Mo. Mag., xlviii., p. 136.

"A Synopsis of the Species of African Culicidæ, other than *Anopheles*." Bull. Ent. Res., iii., p. 1.

INSECTA—*continued.*

"A Key for determining the African Species of *Anopheles* (sensu lato)." *Ib.*, p. 241.
"Revised Keys to the known Larvæ of African Culicinæ." *Ib.*, p. 373.
"Notes on the British Mosquitos (Culicinæ)." Entomologist, xlv., pp. 191, 217, 260.
"Tipulidæ of the Seychelles Islands." Trans. Linn. Soc. (2), xv., p. 195.

By W. L. DISTANT:—

"An Enumeration of the Rhynchota collected during the Expedition of the British Ornithologists' Union to Central Dutch New Guinea." Trans. Ent. Soc., 1911, p. 591.
"Descriptions of new Genera and Species of Oriental Homoptera." Ann. Mag. Nat. Hist. (8), ix., p. 181.
"New Genera and Species of Oriental Homoptera." *Ib.*, p. 459.
"New Genera and Species of Rhynchota." *Ib.*, p. 640.
"Descriptions of Ethiopian Rhynchota (Heteroptera)." *Ib.*, x., p. 87.
"Insects of the Fauna of Bromeliaceæ." *Ib.*, p. 437.
"Description of some new Homoptera." *Ib.*, p. 438.
'Rhynchotal Notes." *Ib.*, p. 602.
"Description of a new Ethiopian Cicada." Entomologist, xlv., p. 200.
"Bornean Pentatomidæ." *Ib.*, p. 251.
"Cicadidæ, Part I." Wytsman's "Genera Insectorum."

By BRUCE F. CUMMINGS:—

"Anoplura from African Hosts" Bull. Ent. Res., iii., p. 393.

Arachnida.

By A. S. HIRST:—

"Descriptions of new Arachnids of the Orders Solifugæ and Pedipalpi." Ann. Mag. Nat. Hist. (8), ix., p. 229.
"Descriptions of new Harvestmen of the family Phalangodidæ." *Ib.*, x., p. 63.
"On a new Species of Mite (*Tarsonemus*) injurious to Sugar-Canes in Barbados." Bull. Ent. Res., iii., p. 325.
"Report on the Acarus causing the skin-disease known as Copra Itch." Journ. Trop. Med., p. 374. (Also published in Journ. Roy. Soc. Med.)
'On two new Parasitic Acari of the genus *Leiognathus*, Cn. (Gamasidæ)." Bull. Ent. Res., iii., p. 369.

The following paper was based partly on material preserved in the British Museum:—

By Prof. K. KRAEPELIN:—

"Neue Beiträge zur Systematik der Gliederspinnen," Part II. Jahrb. Hamb. Wiss. Anst., xxix., p. 45.

Crustacea.

By Dr. W. T. CALMAN :—

"The Crustacea of the Order Cumacea in the Collection of the United States National Museum."
Proc U.S. Nat. Mus., xli., p. 603.

"On a Terrestrial Amphipod from Kew Gardens."
Ann. Mag. Nat. Hist. (8), x., p. 132.

"On *Dipteropeltis*, a new genus of the Crustacean Order Branchiura." Proc. Zool. Soc., 1912, p. 763.

By Prof. G. O. SARS :—

"Report on some larval and young stages of Prawns from Lake Tanganyika." Proc. Zool. Soc., 1912, p. 426.

Pycnogonida.

By Miss FLORA M. SCOTT :—

"On a Species of *Nymphon* from the North Pacific."
Ann. Mag. Nat. Hist. (8), x., p. 206.

Worms.

The following deal with earthworms in the collection :—

By L. COGNETTI DE MARTIIS :—

"Description of a new species of the Genus *Perionyx*."
Ann. Mag. Nat. Hist. (8), ix., p. 67.

"On the Geographical Distribution of the Genus *Perionyx*." *Ib.*, p. 336.

Porifera, etc.

By R. KIRKPATRICK :—

"On the Stromatoporoids and *Eozoon*."
Ann. Mag. Nat. Hist. (8), x., p. 341.

"On the Structure of Stromatoporoids and of *Eozoon*."
Ib., p. 446.

"Note on *Merlia normani* and the Monticuliporas."
Proc. Roy. Soc., B. lxxxv., p. 562.

V.—*Acquisitions.**

MAMMALIA.

The additions to this class during the past year number 3,138, of which the following are most worthy of note :—

Special attention may be directed to the large collection of Indian Mammals presented by the Bombay Natural History Society ; to Mr. A. Blayney Percival's Collection of East African Mammals ; Mr. Fenwick Owen's Chinese Collection ; the Algerian Collection presented by the Hon. Walter Rothschild, F.R.S. ; and the fine Collection of Heads and Horns, mostly Asiatic, the bequest of the late Mr. A. O. Hume, C.B.

* A table showing the number of specimens added during the year is given on page 159.

MAMMALIA—*continued.*

From various localities.

Thirteen skulls of Peruvians, and two skulls of Mound Builders, from Peru, by exchange with the United States National Museum.

Three human skulls from Ruanda; *presented by Claude A. Marshall, Esq.*

A human skull found in digging the foundation of a house near Thetford, Norfolk; *presented by T. R. Ashlee, Esq.*

Europe.

Two flippers, a set of baleen, and parts of the viscera of the Common Rorqual, *Balænoptera musculus*, from Collafirth, Lochend, Shetland.

Two flippers, a set of baleen, and parts of the viscera of Rudolphi's Rorqual, *Balænoptera borealis*, from Collafirth, Lochend, Shetland.

Two fœtuses of Rudolphi's Rorqual, *Balænoptera borealis*, from Collafirth, Lochend, Shetland.

Two flippers of Sibbald's Rorqual, *Balænoptera sibbaldi*, from Collafirth, Lochend, Shetland.

A skull of the Common Porpoise, *Phocæna communis*, from Yell Sound, Shetland; *presented by Capt. Gunter Jenssen.*

An Albino Mole from Uckfield, Sussex; *presented by Charles Dawson, Esq.*

A melanic specimen of the Common Hare, from Alton; *presented by Jermyn Boyd, Esq.*

A melanic specimen of the Common Water Vole from Aberdeenshire; *presented by the Hon. George Edwards.*

Fifty mammals from Dobrudscha and a Roe Deer from Ferrières, France; *presented by the Hon. N. C. Rothschild.*

A Wild Boar from Transylvania; *presented by Fräulein Sarolta von Wertheimstein.*

A Wild Boar from Coto Doñana, Spain; *presented by Abel Chapman, Esq.*

Asia.

A Sumatran Tiger and a Sheep (*Ovis vignei*) from India; *presented by the Zoological Society.*

Six hundred and seventy-seven mammals collected by Messrs. G. C. Shortridge and C. A. Crump in India; *presented by the Bombay Natural History Society.*

Seven mammals from Ratnagiri, S.W. India; *presented by G. S. Hardy, Esq., I.C.S.*

Two mammals from Simla; *presented by P. T. L. Dodsworth, Esq.*

MAMMALIA—*continued.*

Twenty-eight mammals from the Kaghan Valley and Hazara, India; *presented by Capt. C. H. T. Whitehead.*

A Mishmi Takin from Chulikatta, Mishmi Country; *presented by Capt. Leonard Bethell.*

Two mammals from the Shan States; *presented by Colonel H. H. Harrington.*

Two mammals from Burma; *presented by Capt. B. V. Abbay.*

Twenty-eight mammals from Penang and Pahang Island, and the skeleton of a Ca'ing Whale from Malacca; *presented by the Federated Malay States Museum.*

A Malay Tapir, *Tapirus indicus*, from Penang; *presented by H. C. Robinson, Esq.*

A skeleton of the rare Cetacean, *Globicephala indica*, from Malacca; *presented by H. C. Robinson, Esq.*

Fifty-one mammals from Tonkin.

Sixty-nine mammals collected by Dr. J. A. C. Smith in China; *presented by G. Fenwick Owen, Esq.*

Eight mammals from Yunnan; *presented by E. B. Howell, Esq.*

Twenty-seven mammals collected by Mr. F. Kingdon Ward in N.W. Yunnan, and 51 mammals collected by Mr. W. Rückbeil, from Djarkent; *presented by His Grace the Duke of Bedford, K.G., F.R.S.*

Thirty-one mammals from Formosa; *collected and presented by Walter Goodfellow, Esq.*

A Pen-tailed Shrew from Karimon Island; *presented by E. D. Butler, Esq.*

A Siamang from Sumatra; *presented by C. Boden Kloss, Esq.*

Twenty-five mammals from Java; received in exchange from the Buitenzorg Museum.

Two mammals from Central Asia; *presented by Mr. Z. Tachibana.*

A Kiang from Ebi-Nor, Central Asia; *presented by J. H. Miller, Esq.*

One hundred and eighty-six mammals collected by Douglas Carruthers, Esq., in Central Asia.

The Hume collection of Mounted Heads and Horns, consisting of 105 specimens, mostly Asiatic; *bequeathed by the late Mr. A. O. Hume, C.B.*

Five mammals from Transcaspia; *presented by the Hon. N. C. Rothschild.*

Africa.

Twelve mammals from the Blue Nile, collected by Capt. M. E. T. Gunthorpe; *presented by Colonel E. J. Gunthorpe.*

MAMMALIA—*continued.*

Two Lions from Port Herald ; *presented by Colonel E. F. Colville.*

Two mammals from Abyssinia ; *presented by the Hon. N. C. Rothschild.*

Five mammals from Abyssinia and Somaliland ; *presented by F. Russell Roberts, Esq.*

A Waterbuck from the Bahr-el-Ghazal ; *presented by Capt. C. Hunter Little.*

A Beira Antelope from Somaliland ; *presented by Arnold Hodson, Esq.*

Seventy mammals from British Somaliland ; *presented by Dr. R. E. Drake-Brockman.*

A Laikipia Eland and two mounted heads of East African Dik-Diks ; *presented by F. C. Selous, Esq.*

A Waterbuck from German East Africa ; *presented by Capt. W. Silver.*

Two Hippopotamus skulls from Portuguese East Africa ; *presented by T. Thompson, Esq.*

Thirty-seven mammals from British East Africa ; *presented by R. L. Scott, Esq.*

Four hundred and fifty mammals from British East Africa ; *presented by A. Blaney Percival, Esq.*

A wild pig from Mt. Kenia, British East Africa ; *presented by R. B. Woosnam, Esq.*

Fourteen mammals from British East Africa ; *presented by C. W. Woodhouse, Esq.*

Two monkeys from British East Africa ; *presented by G. H. R. Hurst, Esq.*

Seventeen mammals from British East Africa and Somaliland ; *presented by Gilbert Blaine, Esq.*

Three mammals from British East Africa ; *presented by Lord Cranworth.*

Three Giraffes from British East Africa ; *presented by the Game Department, British East Africa.*

A rare lemur (*Galago hindei*) from the Tana River, British East Africa ; *presented by G. St. J. Orde Browne, Esq.*

Fifteen mammals from British East Africa ; *presented by A. M. Champion, Esq.*

Four Shrews from Zanzibar ; *presented by Dr. W. M. Aders.*

Ten mammals from Uganda ; *presented by Dr. C. H. Marshall.*

Ten mammals from Central and South Africa ; *presented by the Zoological Society.*

A Duiker from Blantyre, Southern Nyasaland ; *presented by D. D. Lyell, Esq.*

MAMMALIA—*continued.*

A Livingstone's Antelope from Blantyre, Southern Nyasaland; *presented by Dr. A. H. Barclay.*

Twenty-six mammals collected by S. A. Neave, Esq., in Uganda; *presented by the Entomological Research Committee.*

A Waterbuck from Northern Rhodesia; *presented by O. E. Wynne, Esq., R.E.*

Three mammals from North-East Rhodesia; *presented by the Hon. Walter Guinness.*

Two mammals from North-West Rhodesia; *presented by J. ff. Darling, Esq.*

Nine mammals from Rhodesia and Abyssinia; *presented by the late Mr. Rowland Ward.*

A Vaal Rhebok from Basutoland; *presented by M. Bosworth Smith, Esq.*

Two Mouse Gerbils from the Transvaal; *presented by A. N. Stenning, Esq.*

Five mammals from East Griqualand; *presented by T. B. Goodall, Esq.*

Four mammals from Cape Colony; *presented by Professor R. Broom.*

A Gorilla from West Africa; *presented by the Hon. Walter Rothschild, F.R.S.*

Nine mammals from West and East Africa; *presented by the Wiesbaden Museum.*

Forty-two mammals from Angola; *presented by the Lisbon Museum.*

Two mammals from the Belgian Congo; *presented by Colonel C. F. Blaine.*

Twenty mammals from the Ja River, Cameroons; collected by Mr. G. L. Bates.

The mounted head of a new Nigerian Buffalo; *presented by A. W. Ward Hunt, Esq., R.H.A.*

Fourteen mammals from Southern Nigeria; *presented by N. W. Thomas, Esq.*

A new Dormouse from Southern Nigeria; *presented by P. A. Talbot, Esq.*

Seventy-five mammals from Southern Nigeria.

Four mammals from Northern Nigeria; *presented by Douglas Cator, Esq.*

Twenty-five mammals from Kabwir, Northern Nigeria; *presented by J. C. Fox, Esq.*

One hundred and seventeen mammals from Panyam, Northern Nigeria; *presented by the late Rev. G. T. Fox.*

MAMMALIA—*continued.*

Thirty-nine mammals from the Gold Coast; *presented by Dr. H. G. F. Spurrell.*

Twelve mammals from Liberia; *presented by R. H. Bunting, Esq.*

Two hundred and forty-three mammals, collected by Dr. E. Hartert, Dr. K. Jordan, and C. Hilgert, Esq., in Algeria and the Algerian Sahara; *presented by the Hon. Walter Rothschild, F.R.S.*

America, North.

A hare from North-West Alberta; *presented by Canon F. C. Smith.*

A Gopher (*Thomomys talpoides*) from South California; *presented by D. Crewdson, Esq.*

An Opossum from Virginia; *presented by Dr. R. W. Shufeldt.*

America, South.

Seventeen mammals from South America; *presented by the Pará Museum.*

Four mammals from South America; *presented by J. A. Wolffsohn, Esq.*

Thirteen mammals from Mariquita, Colombia; *presented by H. H. Crease, Esq.*

An Opossum from Tobago; *presented by R. B. Archibald, Esq.*

Fifty-six mammals from British Guiana; *presented by F. V. McConnell, Esq.*

Ten mammals from Buenos Ayres; *presented by W. A. Smithers, Esq.*

Three mammals from Buenos Ayres; *presented by the Zoological Society.*

A cat (*Felis geoffroyi*) from Los Yngleses, Ajo, Buenos Ayres; *presented by Ernest Gibson, Esq.*

Fifty-five mammals collected by Señor E. Budin in North Argentina; *presented by the Hon N. C. Rothschild.*

Four mammals from the Argentine Republic; *presented by Capt. H. Holmes-Tarn.*

A Pichiciago from the Argentine Republic; *presented by F. H. Schultz, Esq.*

A skin and skeleton of the Elephant Seal (*Mirounga leonina*) from Speedwell Island, S. Falklands.

Eight mammals from Pozuzo, Peru; *presented by Oldfield Thomas, Esq., F.R.S.*

Three mammals from Peru, collected by Messrs. H. and C. Watkins.

MAMMALIA—*continued.*

A Grison from San Pedro, Limache; *presented by Mr. Arturio Solari.*

A Bolivian Leaf-eared Mouse from Chyanta, Bolivia; *presented by Frank A. Moss, Esq.*

Australasia.

The types of two new Rodents from the Rawlinson Mountains, New Guinea; *presented by the Hon. Walter Rothschild, F.R.S.*

A feather-tailed Phalanger and the type of a new species of *Phascogale* from German New Guinea; *presented by the Hon. N. C. Rothschild.*

A Dormouse Phalanger from North-East Tasmania; *presented by H. H. Scott, Esq.*

AVES.

The acquisitions number 4,575. Of these the most noteworthy are as follows:—

Europe.

Four examples of the Capercailzie (*Tetrao urogallus*), in eclipse-plumage; *presented by the Marquess of Breadalbane, K.G.*

One hundred and forty-two British birds from the collection of the late Thomas Pennant, including examples of the Capercailzie believed to be from Scotland, and many of the specimens figured in his "British Zoology" (1766); *presented by the Earl of Denbigh, C.V.O.*

One hundred and sixteen birds from Northumberland and Scotland; *presented by W. R. Ogilvie-Grant, Esq.*

An example of the male Black Grouse (*Lyrurus tetrix*), assuming female plumage; *presented by Lieut.-Colonel H. Wade-Dalton.*

Five Ducks from Iceland, including *Clangula islandica* and *Fuligula marila* in "eclipse" plumage; *presented by Major H. Jones.*

Nestlings of *Otis tetrax, Grus antigone*, and *Clangula islandica*, bred in captivity; *presented by W. H. St. Quintin, Esq.*

Asia.

Eleven Pheasants from South-east Kansu, Western China, including the type of *Phasianus strauchi chonensis; presented by G. Fenwick Owen, Esq.*

One hundred and sixty-seven birds from Western China; *presented by His Grace the Duke of Bedford, K.G.*

Forty-four birds from South-east Tibet and the Mishmi Hills; *presented by Capt. F. M. Bailey.*

AVES—*continued.*

Five birds from the Southern Shan States; *presented by J. Pemberton Cook, Esq.*

Two hundred and forty-eight birds from the Island of Shaweishan, South China; collected by J. D. La Touche, Esq.

The type specimens of *Porzana cinerea brevipes* from the Bonin Islands; *presented by Collingwood Ingram, Esq.*

Four examples of the Persian Pheasant (*Phasianus persicus*); *presented by Major P. M. Sykes.*

The co-type of Kuser's Blood Pheasant (*Ithagenes kuseri*) from Yunnan; received in exchange from the Paris Museum.

One hundred and two birds from the Philippine Islands; collected by J. J. Mouncey, Esq.

The type specimen of *Pucrasia joretiana* from Anwhei Province, China; *presented by the Rev. J. Courtois.*

Five examples of Cuvier's Silver Pheasant (*Gennæus cuvieri*) from Upper Burma; *presented by C. Hopwood, Esq.*

Six birds from the Mishmi Hills, collected by Capt. F. M. Bailey; *presented by the Bombay Natural History Society.*

Africa.

One thousand nine hundred and ninety birds from North-east Africa, including the types of *Anomalospiza macmillani, Eremomela abyssinica, Pentholæa macmillani,* and *Bradyornis granti; presented by W. N. McMillan, Esq.*

One hundred and eighty-nine birds from the Tana River, including a rare Pipit, *Macronyx aurantiigula,* which was previously unrepresented in the collection; *presented by G. Blaine, Esq.*

One hundred and forty-two birds from Uganda and the Belgian Congo, collected by Robin Kemp; *presented by Oldfield Thomas, Esq., F.R.S.*

Nine eggs from British East Africa, including those of a Weaver-Finch, *Ploceipasser melanorhynchus,* new to the collection; *presented by F. C. Selous, Esq.*

Three rare birds from British East Africa, including examples of *Pitta longipennis* and *Francolinus uluensis; presented by R. B. Woosnam, Esq.*

Eleven birds from British East Africa, including a rare Weaver-Finch (*Estrilda cyanocephala*) new to the collection; *presented by Colonel R. Stephenson Clarke.*

Three hundred and ninety-seven birds from British East Africa, including the type of a new Weaver-Finch (*Cryptospiza borealis*); *presented by A. Blayney Percival, Esq.*

The type-specimen of *Erythrocercus nyassa* from Nyasaland; *presented by Professor R. Newstead, F.R.S.*

Six birds from Natal; *presented by E. C. Chubb, Esq.*

AVES—*continued.*

The type-specimens of *Mirafra jacksoni*, *Poliospiza elgonensis*, and *Campophaga martini*; *presented by Sir F. J. Jackson, K.C.M.G.*

The co-types of *Calandrella sclateri capensis*; *presented by the South African Museum.*

Seven birds and two eggs from South Africa; *presented by Dr. P. L. Sclater, F.R.S.*

Sixteen birds from Southern Nigeria; *presented by P. A. Talbot, Esq.*

One hundred and sixty-five birds from Gran Canaria and other localities; *presented by D. A. Bannerman, Esq.*

Sixty-three birds from Northern Nigeria collected by the late José Lopez; *presented by Capt. J. J. Brocklebank.*

America, North.

Two hundred and eleven birds from Canada; collected by J. Munro, Esq.

Three examples of the White-tailed Ptarmigan (*Lagopus leucurus*), in full summer-plumage, from the Mountains of Alberta, Canada; *presented by A. Thorborn, Esq.*

Two specimens of the White-tailed Ptarmigan (*Lagopus leucurus*) in full summer-plumage, from Canada; collected by Willoughby P. Lowe, Esq.

Eleven birds from the West Indies; *presented by Dr. P. L. Sclater, F.R.S.*

America, South.

One hundred and three birds from Trinidad; *presented by C. J. Wilson, Esq.*

An example of *Berlepschia rikeri* from British Guiana, new to the collection; *presented by F. V. McConnell, Esq.*

Twenty-seven birds from South-east Brazil; *presented by Claude H. B. Grant, Esq.*

Twenty birds and ten eggs from the Falkland Islands, collected by Arthur F. Cobb, Esq.

The type specimen of *Phœnicopterus jamesi* from Northern Chile; *presented by Mrs. H. Berkeley James.*

Forty-one birds from Lima, Peru; *presented by Dr. P. L. Sclater, F.R.S.*

Australasia.

Two rare Cassowaries, *Casuarius intensus* and *C. violicollis*, from New Guinea; *presented by the Hon. Walter Rothschild, F.R.S.*

Fifty-seven birds from Australia; received in exchange from Gregory M. Matthews, Esq.

Nine birds from the Solomon Islands; *presented by Dr. P. L. Sclater, F.R.S.*

Reptilia.

The additions number 511, of which 391 were received by presentation, 87 by purchase, and 33 by exchange.

The following additions are the most important:—

Europe.

Twenty-nine Lizards from Southern Europe, including types of varieties of *Lacerta muralis* described by the donor; *presented by Dr. F. Werner.*

Seven Lizards from Southern Europe; *presented by Dr. J. de Bedriaga.*

Asia.

Seven Lizards from Syria, Mesopotamia, and Kurdistan; *presented by the Lyons Museum.*

One of the types of *Lacerta anatolica,* from Asia Minor; *presented by Dr. F. Werner.*

Twenty-eight Reptiles from Baluchistan; *presented by Capt. C. Daukes.*

Six Snakes from French Indo-China; *presented by Prof. F. Guitel.*

Thirty-eight Snakes from Kelantan, Malay Peninsula; *presented by Dr. A. G. H. Smart.*

Twenty-five Snakes from Dutch Borneo; *presented by Henry Harvey, Esq.*

The type of a Snake, *Xenelaphis ellipsifer,* from Borneo; *presented by the Sarawak Museum.*

Africa.

Seventeen Reptiles collected by Capt. C. Citerni in Abyssinia and Somaliland, including the type of a new Lizard (*Hemidactylus citernii*), and a Lizard new to the collection (*Latastia boscæ*); *presented by the Genoa Civic Museum.*

Eight Reptiles from Uganda; *presented by Sir F. J. Jackson, K.C.M.G.*

Four Reptiles from British East Africa; *presented by R. L. Scott, Esq.*

Fourteen Reptiles from Portuguese East Africa; *presented by Dr. J. J. Simpson.*

Four Snakes obtained in the Lower Congo by Dr. W. J. Ansorge.

Forty Reptiles from South Cameroon, collected by Mr. G. L. Bates, among which are the types of three new Snakes (*Typhlops batesii, Gonionotophis microps, Elapocalamus gracilis*).

Thirteen Reptiles from Southern Nigeria and French Central Africa; *presented by P. A. Talbot, Esq.*

Ten Reptiles from the Gold Coast; *presented by Dr. H. G. F. Spurrell.*

REPTILIA—*continued.*

A Snake (*Psammophis regularis*), new to the collection, from Sierra Leone; *presented by the Zoological Society of London.*

Six Snakes collected by Dr. W. J. Ansorge in Portuguese Guinea.

Twenty-three Reptiles from the Central Plateau of Algeria, collected by Dr. K. Jordan; *presented by the Hon. Walter Rothschild, F.R.S.*

One hundred and thirty-five Reptiles from the Algerian Sahara, collected by Dr. E. Hartert; *presented by the Hon. Walter Rothschild, F.R.S.*

America.

A co-type of a Lizard from Hayti (*Liocephalus melanochlorus*) and an Amphisbæna from Cuba new to the collection (*Amphisbæna cubana*), received in exchange from the Museum of Comparative Zoölogy, Cambridge, Mass.

Twenty-five Reptiles collected in Eastern Ecuador by Mr. M. G. Palmer, among which are the types of two new Lizards (*Tropidurus holotropis*, *Ptychoglossus brevifrontalis*) and of a new Snake (*Leptognathus palmeri*).

Eleven Reptiles from Eastern Peru, collected by Mr. E. Boettger, among which are the types of two new Snakes (*Leptognathus polylepis*, *Lachesis chloromelas*).

An Amphisbæna (*Amphisbæna angustifrons*), new to the collection, from Argentina; *presented by the Hon. N. C. Rothschild.*

Australia.

A Lizard (*Gymnodactylus sphyrurus*) from New South Wales, new to the collection.

BATRACHIA.

The additions number 192, of which 116 were received by presentation, 65 by purchase, 11 by exchange.

The following are the most important :—

Europe.

Twelve Frogs from Andalucia; *presented by Abel Chapman, Esq.*

Africa.

Twelve Frogs from Laikipia, British East Africa; *presented by Sir F. J. Jackson, K.C.M.G.*

Four Frogs from Portuguese East Africa; *presented by Dr. J. J. Simpson.*

Twenty-two Batrachians from South Cameroon, collected by Mr. G. L. Bates.

BATRACHIA—*continued.*

Fourteen Batrachians from Southern Nigeria and the French Congo; *presented by P. A. Talbot, Esq.*

Twenty-three Frogs from the Algerian Sahara, collected by Dr. E. Hartert; *presented by the Hon. Walter Rothschild, F.R.S.*

America.

Eleven specimens from the West Indies and Colombia, including representatives of five species (*Prostherapis boulengeri, Atelopus gracilis, Hylodes jamaicensis, H. varians, Bufo empusus*), new to the collection; received in exchange from the Museum of Comparative Zoölogy, Cambridge, Mass.

Twenty-six Batrachians collected in Eastern Ecuador by Mr. M. G. Palmer, including types of three new Frogs (*Hylodes ventrimarmoratus, H. margaritifer, Phyllomedusa loris*).

Twelve Batrachians, collected in Eastern Peru by Mr. E. Boettger, including types of two new Frogs (*Edalorhina nasuta, Hyla melanopleura*).

PISCES.

The additions numbered 2,035, of which 1,385 were acquired by presentation, 630 by purchase, and 20 by exchange; the following are the most important:—

From Various Localities.

Seventy-one Fishes from various localities, including examples of several species new to the collection and the type of a new Cyprinodont (*Rivulus strigatus*) from the Amazon; *presented by Herr J. Paul Arnold.*

Europe.

Ten Fishes from deep water off the Irish Coast, including the type of *Raia bathyphila* and a specimen of *Scopelopsis multipunctata*, new to the collection; *presented by E. W. L. Holt, Esq.*

One hundred and forty-five Fishes from deep water off the Irish Coast; *presented by L. W. Byrne, Esq.*

A Char (*Salvelinus trevelyani*) from Lough Finn; *presented by Capt. J. S. Hamilton.*

Two Char (*Salvelinus colii*) from Lough Gortyglass; *presented by F. B. Henn, Esq.*

A Twaite Shad (*Clupea finta*) from Killarney, caught in January; *presented by John Hilliard, Esq.*

Thirty-five Sticklebacks (*Gastrosteus aculeatus* and *G. pungitius*) from Ireland; *presented by R. Patterson, Esq.*

PISCES—*continued.*

A Rare Ray (*Raia undulata*) from Rye Bay, Sussex; *presented by J. O. Borley, Esq.*

A large Carp (*Cyprinus carpio*), 20½ lbs., from Aldermaston; *presented by Charles E. Keyser, Esq.*

A Vendace (*Coregonus gracilior*) from Derwentwater.

Two Char (*Salvelinus lonsdalii*) from Haweswater; *presented by C. H. Allan, Esq.*

A Char (*Salvelinus willughbii*) from North Uist; *presented by D. Mackenzie, Esq.*

A Char (*Salvelinus willughbii*) from Loch Calder; *presented by Lewis Dunbar, Esq.*

A rare Skate (*Raia lintea*) from Iceland; *presented by R. M. Thomson, Esq.*

Two examples of *Raia lintea* from Iceland; *presented by J. Mundie, Esq.*

Twenty Fishes from the Atlantic and Mediterranean; *presented by Dr. R. N. Wolfenden.*

Asia.

Eleven fishes from India, including examples of *Clupea brachysoma* and *Nemachilichthys rueppellii*, new to the collection; *presented by N. B. Kinnear, Esq.*

Twenty-nine fishes from Travancore, including examples of an Eel (*Ophichthys microcephalus*) and a Blenny (*Cristiceps xanthosoma*), new to the collection; *presented by the Trevandrum Museum.*

Thirty-six fishes from the Indian Ocean, including the types of three new species (*Xenoconger fryeri*, *Salarias longianalis* and *Parioglossus tæniatus*); *presented by Professor J. Stanley Gardiner, F.R.S.*

Nine fishes from the Seychelles; *presented by P. R. Dupont, Esq.*

Fifty-two fishes from Perak and Penang; *presented by E. Seimund, Esq.*

Africa.

Fifteen fishes from Algeria; *presented by the Hon. Walter Rothschild, F.R.S.*

Seventy fishes from Lake Victoria and Magadi; *presented by C. M. Woodhouse, Esq.*

Seventy-eight fishes from Uganda, including the types of two new species (*Alestes jacksoni* and *Amphilius jacksoni*); *presented by Sir F. J. Jackson, K.C.M.G.*

One hundred and fifty fishes from British East Africa, including the types of five new species (*Labeo percivali*, *Barbus argyrotænia*, *B. mimus*, *Amphilius oxyrhinus* and *Tilapia percivali*); *presented by A. Blayney Percival, Esq.*

PISCES—*continued.*

Thirty fishes from the Congo, including the types of several new species; *presented by the Congo Museum, Tervueren.*

Five hundred and seventy-nine fishes from Portuguese Guinea and the Congo, including the types of several new species, collected by Dr. W. J. Ansorge.

Twenty-nine fishes from South Cameroon, including the types of two new species (*Labeo batesii* and *Pelmatochromis kribensis*), collected by Mr. G. L. Bates.

Sixty-seven fishes from the Gold Coast, including the type of a new Cyprinid (*Barilius macrostoma*); *presented by Dr. H. G. F. Spurrell.*

America, North.

Eggs and young of the Bow-fin (*Amia calva*), from North America; received in exchange from Professor Bashford Dean.

Ten fishes from British Columbia, including specimens of three species (*Oxylebius pictus, Stelgis vulsus* and *Icelinus borealis*), new to the collection; *presented by F. A. Potts, Esq.*

America, South.

Forty fishes from South America, including the types of three new species (*Pyrrhulina vittata, Iguanodectes rachovii* and *Cynopœcilus melanotœnia*); *presented by Herr A. Rachow.*

A co-type of a Cichlid Fish (*Geophagus camopiensis*) from French Guiana; received in exchange from the Paris Museum.

Two specimens of a Cyprinodont (*Rivulus ocellatus*) from Santos, new to the collection.

Thirty-four fishes from Porto Real, Rio Janeiro; from M. Hardy de Dréneuf's collection.

Seventeen fishes from Chile, including examples of a Characid (*Chirodon pisciculus*) new to the collection; *presented by D. S. Bullock, Esq.*

Three Nototheniid Fishes from South Georgia and the Falklands, including a co-type of *Notothenia karlandreæ*; received in exchange from Dr. E. Lönnberg.

A Characid (*Xiphorhamphus kneri*) from Canelos, new to the collection.

Australia.

Five specimens of *Ceratodus forsteri* from Queensland; *presented by Dr. T. L. Bancroft.*

Antarctica.

Eighty-eight fishes from the Antarctic, including the types of several new species; *presented by Dr. W. S. Bruce.*

TUNICATA.

The most important additions are:—

Nine specimens of Pelagic Tunicata (*Salpa* and *Pyrosoma*) from the Atlantic Ocean between Gibraltar and the Azores; *presented by R. N. Wolfenden, Esq.*

Mollusca.

The additions number 2,784, of which 1,668 were obtained by presentation, 1,112 by purchase, and four by exchange.

The principal acquisitions are :—

Miscellaneous.

Eighty-four shells from various localities, including 17 types, 2 co-types and 45 figured specimens from the Hanley Collection, also abnormal examples of *Murex*, *Strombus*, *Harpa*, *Cypræa* and *Turbo* ; *presented by Henry Harvey, Esq.*

Three hundred and seventy-five shells from various localities, including 75 types of species described by J. C. Melvill, J. H. Ponsonby, and G. B. Sowerby.

One hundred and fifty-five land and freshwater shells from East Africa, Falkland Islands and other localities, including a large number of new and recently described forms.

Two hundred and ninety-nine land, freshwater and marine shells from Falkland Islands, Central Africa and other places, including many new species, and nearly all being new to the collection.

Europe.

Five rare Cephalopods from the West of Ireland ; *presented by E. W. L. Holt, Esq.*

Fifteen types of species and sixty-one figured specimens from the collection of Thomas Pennant ; *presented by the Earl of Denbigh, C.V.O.*

Asia.

About seven hundred species of Oriental Land Mollusca, selected from the collection of the late Col. R. H. Beddome ; *presented by Mrs. Beddome.*

Forty-one land and freshwater shells from Siam ; *presented by H. B. Garrett, Esq.*

Ten Opisthobranchs from Japan ; *presented by the Tokio Museum.*

Eighteen land shells from N.W. China, including the types of nine new species ; *presented by the Rev. A. H. Cooke.*

Forty-five marine shells from the Persian Gulf, including the types of 32 species described by Mr. Melvill ; *presented by J. C. Melvill, Esq.*, and *F. W. Townsend, Esq.*

Africa.

Thirteen Pulmonata from South Africa, including eight types and two co-types of new species ; *presented by Major H. Connolly.*

The types of *Marginella dautzenbergi* and *M. chalmersi*, from St. Thomé Island, West Africa ; *presented by J. R. Le B. Tomlin, Esq.*

MOLLUSCA—*continued.*

Forty-one land shells from East and South Africa, including types of species of *Curvella* and *Helicarion*; *presented by J. H. Ponsonby, Esq.*

America.

The types of *Ambages sharmani* and *Neocyclotus peilei*, from Alejandria, Colombia; *presented by Major A. J. Peile, R.A.*

Australasia.

Twenty-two land shells from Queensland and New South Wales, mostly co-types of new species described by Mr. C. Hedley; *presented by S. W. Jackson, Esq.*

Sixty-six specimens of *Marginella* from Cape Pillar and Maria Island, off Tasmania, nearly all new to the collection; *presented by W. L. May, Esq.*

Fourteen land shells from Oahu, Hawaiian Islands; *presented by J. H. Ponsonby, Esq.*

Forty-seven land and freshwater shells from various parts of Australia; *presented by J. H. Ponsonby, Esq.*

One hundred and thirty marine shells from Waikanae Beach, West Coast of North Island, New Zealand; *presented by W. G. Rutherfurd, Esq.*

INSECTA.

Including the Adams Collection of Lepidoptera, estimated to contain about 140,000 specimens, the number of specimens added to this part of the collection during the year is 303,717, made up as follows:—

Coleoptera	45,173
Lepidoptera	195,618
Hymenoptera	13,797
Diptera	17,758
Rhynchota	18,951
Orthoptera	2,914
Neuroptera	1,184
Mallophaga, Anoplura, etc.	6,007
Nests, larvæ, pupæ, etc.	2,315
Total	303,717

The most important of these accessions are the following:—

From Various Localities.

The Collection of Lepidoptera, estimated to contain some 140,000 specimens, including 250 types, chiefly Rhopalocera; *bequeathed by the late Herbert J. Adams, Esq.*

Fourteen thousand four hundred and fifty-one named Lepidoptera Rhopalocera, chiefly American, and containing

INSECTA—*continued.*

numerous types, together with 1,544 microscope slides of Rhopalocera; *presented by F. Du Cane Godman, Esq., D.C.L., F.R.S.*

Three thousand nine hundred and eighty specimens of Anoplura and Mallophaga; *presented by the Hon. N. C. Rothschild.*

Six hundred and ninety-three specimens of Anoplura and Mallophaga; *presented by the Zoological Society of London.*

Eight hundred and ninety-three Hymenoptera; *presented by Rowland E. Turner, Esq.*

The second instalment of the Distant Collection, containing 2,400 Lepidoptera Rhopalocera, 2,000 Rhynchota, and 570 Diptera.

Three thousand seven hundred Rhynchota, 68 Coleoptera, and 11 Orthoptera, from the collection of the late Mr. G. W. Kirkaldy; *presented by Miss Kirkaldy.*

Europe.

Nine thousand four hundred and eighty-four British Diptera from the Verrall Collection, bringing the total bequest up to 11,650 specimens; *bequeathed by the late G. H. Verrall, Esq.*

One thousand two hundred and thirteen Microlepidoptera from various parts of Europe; *presented by T. A. Chapman, Esq., M.D.*

One thousand one hundred and fifty-six British Diptera; *presented by Lieut.-Col. J. W. Yerbury.*

Asia.

Two hundred and forty-six Orthoptera; *presented by the Indian Museum, Calcutta.*

Two hundred and ninety-three Orthoptera; *presented by the Agricultural Institute, Pusa.*

Five hundred and eighty Rhynchota, from the Philippine Islands; *presented by J. J. Mounsey, Esq.*

Seven hundred and ninety Diptera, including some types, and 55 microphotographs of the same, from the Federated Malay States; *presented by Dr. G. F. Leicester.*

A third instalment, consisting of 8,000 specimens of Japanese Coleoptera, from the George Lewis Collection.

Africa.

Eighty-two thousand nine hundred and nine specimens of all Orders of Insects from various parts of Africa, containing much valuable named material; *presented by the Entomological Research Committee.*

Three thousand one hundred and forty-three named Coleoptera, from South Africa; *presented by Guy A. K. Marshall, Esq.*

INSECTA—*continued.*

Eight hundred and seventy-four Hymenoptera and 197 Insects of other Orders, from the Valleys of the Zambesi and Luangwa Rivers; *presented by the British South Africa Company and the relatives of the late Mr. O. C. Silverlock.*

Seven hundred and ninety-seven Lepidoptera, from Nigeria; *presented by Lieut. J. D. Sanders.*

A collection of 550 Hymenoptera from South Africa, received from Dr. H. Brauns.

Two hundred and fifty-four Diptera, collected by the Percy Sladen Trust Expedition to the Seychelles; *presented by Professor J. Stanley Gardiner, F.R.S.*

America.

Eight hundred and fifteen Hymenoptera from Brazil and the Argentine; *presented by G. E. Bryant, Esq.*

Two hundred and sixty-two Insects of all Orders from Trinidad; *presented by Guy A. K. Marshall, Esq.*

Two hundred and nineteen Insects of all Orders from St. Kitts; *presented by J. J. Quelch, Esq.*

Two hundred and twenty-six Coleoptera from North America and Mexico, received in exchange from Dr. A. Fenyes.

Three thousand five hundred and twenty Coleoptera, including 200 type-specimens, from Central America; *presented by F. Du Cane Godman, Esq. D.C.L., F.R.S.*

Two hundred and twenty-three moths and three butterflies, from Costa Rica; *presented by W. Schaus, Esq.*

Australasia and Pacific Ocean.

Three hundred and ninety Hymenoptera and 245 Diptera from Victoria; *presented by Charles French, Esq.*

Four hundred Australian Coleoptera, mostly type-specimens, from the late Rev. Canon T. Blackburn's Collection.

Three thousand one hundred and eighty-four Coleoptera, 1,066 Hymenoptera and 214 Neuroptera, from the Sandwich Islands; *presented by the Joint Committee of the Royal Society and the British Association for the Exploration of the Sandwich Islands.*

MYRIOPODA.

The accessions number 51, of which the more important are as follows:—

Two co-types of a Mexican Millipede (*Rhiscosomides mineri*); received in exchange from Prof. F. Silvestri.

Twenty-two Centipedes from Venezuela.

Two Centipedes from Uganda, one of them representing an undescribed genus of Scolopendridæ; *presented by the Entomological Research Committee.*

Arachnida.

The accessions number 1,085 ; the following being specially worthy of notice :—

Miscellaneous.

Four hundred and ninety parasitic Acari from various localities, including the typical specimens of a new Mite (*Leiognathus liberiensis*) ; *presented by the Hon. N. C. Rothschild.*

Two hundred and ten Arachnida from various localities, including the types of a new Mite *(Tarsonemus spinipes)* ; *presented by the Entomological Research Committee.*

Asia.

Thirty-three Oriental Opiliones, including the co-types of several species described by Dr. C. Fr. Roewer ; received in exchange from the Indian Museum, Calcutta.

The types of a new Mite (*Tyroglyphus longior*, var. *castellanii*), causing a skin-disease in Ceylon ; *presented by Dr. Aldo Castellani.*

Africa.

Forty-four Spiders from South Africa, including the type of *Harpactira gigas.*

The typical specimens of a parasitic Mite (*Leiognathus creightoni*) found on a porcupine at Nairobi, British East Africa ; *presented by J. Creighton, Esq.*

Crustacea.

The principal addition has been the Budde-Lund collection of Woodlice (terrestrial Isopoda) which is estimated to contain about 6,500 specimens ; the other accessions number 1,959, of which the following are the most important :—

Miscellaneous.

Two hundred and sixty-six specimens of Cumacea, including paratypes of 11 species ; *presented by the United States National Museum.*

Europe.

Five Crustacea, probably types of species described by Thomas Pennant in 1777 ; *presented by the Earl of Denbigh, C.V.O.*

Nine specimens of a new species of terrestrial Amphipod from Kew Gardens ; *presented by A. W. Hill, Esq.*, Assistant Director of the Royal Botanic Gardens, Kew.

Eleven microscopic preparations of Branchiopoda and Schizopoda from Bournemouth ; *presented by H. J. Waddington, Esq.*

Four Woodlice from the Isle of Wight ; *presented by W. Omer Cooper, Esq.*

CRUSTACEA—*continued.*

Fifty Crustacea collected at Plymouth.

Six specimens of *Galathea* from the English Channel; *presented by L. R. Crawshay, Esq.*

Eight fish-parasites from Great Yarmouth; *presented by A. H. Patterson, Esq.*

Five specimens of Gill-maggots of the Salmon from the River Tay; *presented by P. D. Malloch, Esq.*

Six specimens of Whale-parasites from Shetland; *presented by R. J. Haldane, Esq.*

Twenty-seven specimens of Whale-lice from Shetland; *presented by Dr. Thomas Lovett.*

Co-types of two species of subterranean Isopoda from France; *presented by Prof. E. G. Racovitza.*

Forty-six Amphipoda from the Mediterranean, including co-types of seven species; *presented by M. Ed. Chevreux.*

Two Stomatopoda, new to the collection, from Naples.

Fifteen specimens of Prawns from Teneriffe; *presented by Lord Walsingham, F.R.S.*

Forty-two Crustacea from Porto Santo; *presented by R. Kirkpatrick, Esq.*

Asia.

A Common Lobster and a Spiny Lobster from Smyrna; *presented by Capt. J. R. Westcott.*

Four Branchiopoda from Aleppo; *presented by Dr. C. M. Wenyon.*

Fifteen Crustacea from Muscat; *presented by Major S. G. Knox, C.I.E.*

Twenty-five River-crabs and Prawns from Chungking; *presented by W. R. Brown, Esq.*

Six specimens of Freshwater Shrimps from Japan; *presented by Prof. D'Arcy W. Thompson, C.B.*

Africa.

Co-types of three species of subterranean Isopoda from Algeria; *presented by Prof. E. G. Racovitza.*

Twenty specimens of subterranean Isopoda from Algeria; *presented by Prof. B. H. Buxton.*

Thirty-one specimens of Branchiopoda and five River-crabs from Algeria; *presented by the Hon. Walter Rothschild, F.R.S.*

Five freshwater Amphipoda from Algeria; *presented by Lord Walsingham, F.R.S.*

Twelve freshwater Crustacea from Africa; *presented by the Entomological Research Committee.*

CRUSTACEA—*continued.*

Fifteen specimens of Branchiopoda from Khartoum; *presented by G. W. Grabham, Esq.*

Three specimens of a River-crab from British East Africa; *presented by R. L. Scott, Esq.*

Sixty-two River-crabs from Uganda; *presented by Sir F. J. Jackson, K.C.M.G.*

Forty-five specimens of larval Prawns from the Great Lakes of Africa; *presented by the Tanganyika Exploration Committee.*

A River-prawn from the Transvaal; *presented by Dr. J. W. B. Gunning.*

Nine co-types of an Amphipod from the Transvaal; *presented by the Hon. Paul Methuen.*

Eleven River-crabs and Prawns from the Cameroons, collected by Mr. G. L. Bates.

Thirty-eight freshwater Decapoda from the Congo, collected by Dr. W. J. Ansorge.

Nineteen River-prawns from Southern Nigeria; *presented by Major W. A. C. Cockburn.*

Three hundred and three Decapoda, Stomatopoda, and Schizopoda from the Western Indian Ocean ("Sealark" Expedition); *presented by Prof. J. Stanley Gardiner, F.R.S.*

America.

Four Crustacea from the West Indies; *presented by Capt. A. Morrell.*

Four Crabs from Jamaica; *presented by Lieut.-Col. L. Worthington Wilmer.*

A Land-crab from St. Kitts, W.I.; *presented by J. J. Quelch, Esq.*

One hundred and sixty specimens of Crustacea from Vancouver Island; *presented by Miss H. L. M. Pixell, B.Sc.*

A collection of fish-parasites (about 90 specimens) from British Guiana; *presented by the Hon. N. C. Rothschild.*

Australasia.

Five specimens of Crabs from Australia; *presented by the Australian Museum, Sydney.*

One hundred and seventy-nine Decapoda and Stomatopoda from Australia; received in exchange from the Australian Museum, Sydney.

Three specimens of freshwater shrimps from Tasmania; *presented by Dr. W. M. Tattersall.*

One hundred and thirty-nine Crustacea collected in New Zealand.

CRUSTACEA—*continued.*

One hundred and thirteen Crustacea from the Kermadec Islands and New Zealand; *presented by Prof. Charles Chilton.*

Antarctic and Subantarctic.

Twenty-two specimens of Whale-parasites from South Georgia; *presented by Dr. G. Cruickshank.*

Sixty-seven Isopoda and Amphipoda from the Antarctic; *presented by Prof. Charles Chilton.*

Twenty-eight Crustacea, including co-types of two species, from the Scottish National Antarctic Expedition; received in exchange from Dr. W. S. Bruce.

PYCNOGONIDA.

Thirty-six specimens, including co-types of two species, from the Scottish National Antarctic Expedition; received in exchange from Dr. W. S. Bruce.

Four co-types of a new species from Vancouver Island; *presented by Miss H. L. M. Pixell, B.Sc.*

ECHINODERMA.

The following are specially noteworthy :—

Six interesting slides of larvæ of young Holothurians from the Antarctic, reported on by Prof. E. W. MacBride, F.R.S.

The type of *Cucumaria normani* has been purchased. A very interesting series of 11 Crinoids from the West Coast of Ireland; *presented by the Department of Agriculture and Technical Instruction, Dublin.* Twenty-five specimens of Antarctic forms collected by the "Scotia" have been obtained by exchange, and make a welcome addition to the collection.

WORMS.

The most important addition is to be found in the specimens of *Arenicola* from the Norman and Ashworth collections, by which every known species but one of that genus is represented.

Thirty-two Polychætes from the neighbourhood of the Malay Archipelago, and 25 from Jamaica, collected by Mr. Duerden.

Eighteen interesting Gephyrea from the North Atlantic were incorporated from the Norman Collection.

The co-type and 10 slides of *Phoronopsis harmeri*, Pixell, and *Phoronis vancouverensis*, from Vancouver; *presented by Miss H. L. M. Pixell, B.Sc.*

The type of *Trichostrongylus colubriformis* from a Punjaub sheep; *presented by Lieut.-Col. Giles.*

Two further instalments—the fifth and sixth—in each case of 24 slides of Rotifera, mounted by C. F. Rousselet, Esq.

Polyzoa.

A number of specimens of Freshwater Polyzoa (*Plumatella, Fredericella and Paludicella*) of considerable economic interest have been added to the collection, viz., from Waterworks at Torquay, Batley, near Market Drayton, and elsewhere in this country, and from the Hamburg Waterworks. The growth of the Polyzoa may seriously interfere with the distribution of the water, and the Museum authorities have been consulted as to the best remedies for curing and preventing the mischief.

Anthozoa.

The following deserve special notice :—

A valuable collection of 75 Alcyonaria collected by Prof. J. Stanley Gardiner, F.R.S., in the Solomon Islands has been presented by him, and 15 Alcyonarians from the Seychelles have been obtained by exchange from the Cambridge University Museum of Zoology.

A fine specimen of *Corallium secundum* from the Sagami Sea.

An excellent example of *Merulina ampliata ; presented by Mrs. Rubin.*

Hydrozoa.

Eight specimens of *Limnocnida indica*, Annandale, a Medusa from fresh-water ponds in the Bombay Presidency ; *received in exchange from the Indian Museum, Calcutta.*

Porifera.

The more important additions were :—

A complete set comprising 111 mounted microscopic preparations made mostly from type-specimens of Sponges described by Prof. G. C. J. Vosmaer in his Report on the Porifera of the "Siboga" Expedition (Part II., The genus *Spirastrella*). The donation was made by Prof. Vosmaer in acknowledgment of the help given him by the staff of the Natural History Museum during his stay in London.

A collection of 97 specimens of Sponges, including many types, from the Red Sea ; *presented by the collector, Cyril Crossland, Esq.*

A very fine specimen of *Regadrella komeyamai* Ijima, from Sagami Bay, Japan.

Protozoa.

Five specimens of the Foraminifera *Homotrema, Sporadotrema* and *Polytrema,* referred to in a memoir by the donor ; *presented by Prof. S. J. Hickson, F.R.S.*

Summary of the Acquisitions in the Department of Zoology during 1912.

	Donations.	Purchases.	Exchanges.	Totals.
Mammalia { Wild	2,234	827	37	3,098
Mammalia { Domesticated	21	—	—	21
Mammalia { Human	4	—	15	19
Aves { Skins	4,090	386	60	4,536
Aves { Eggs and skeletons	29	10	—	39
Reptilia	391	87	33	511
Batrachia	116	65	11	192
Pisces	1,385	630	20	2,035
Tunicata	9	—	—	9
Mollusca	1,668	1,112	4	2,784
Insecta { Adams Bequest	140,000	—	—	303,717
Insecta { Other sources	148,182	14,604	931	
Prototracheata	1	1	—	2
Myriopoda	24	25	2	51
Arachnida	921	131	33	1,085
Crustacea { Budde-Lund Collection	—	6,500	—	8,459
Crustacea { Other sources	1,512	240	207	
Pycnogonida	4	—	36	40
Echinoderma	17	1	25	43
Worms	71	114	5	190
Brachiopoda	3	4	—	7
Polyzoa	36	—	—	36
Anthozoa	7	1	95	103
Hydrozoa	4	—	14	18
Porifera	214	2	—	216
Protozoa	5	—	—	5
Totals	300,948	24,740	1,528	327,216

The following Donors* presented specimens to the Department of Zoology during the year 1912:—

Abbay, Capt. B. V.
Adams, Herbert J. (the late)
Aders, Dr. W. M.
Alcock, Lieut.-Col. A., F.R.S.
Alexander, C. P.
Allan, C. H.
Ancaster, Earl of
Anderson, F. C.
Anderson, J.
Andres, Prof. Ad.
Andrewes, H. E.
Andrewes, H. L.
Archibald, R. B.
Arnold, J. P.
Ashworth, Dr. J. H.
Austen, E. E.
Australian Museum (*see* Sydney).
Avebury, Lord, F.R.S. (the late)
Aylmer, Capt. L.
Bacot, A.
Bailey, Capt. F. M.
Bancroft, Dr. T. L.
Bannerman, D. A.
Bankes, E. R.
Barclay, Dr. A. H.
Barres, Dr. W.
Barrett-Hamilton, Maj. G. E. H.
Barrow, Dr. A. Boyce
Barry, Capt. R. A. H.
Bartsch, Dr. P.

* A list of Donors of books, etc., is given on pp. 125–127, under the heading "Departmental Library."

Bassett, Rev. Compton
Bate, Miss D. M. A.
Baxter, T.
Beckett, B. J.
Beddome, Mrs. R. H.
Bedford, His Grace the Duke of, K.G., F.R.S.
Bedriaga, Dr. J. de
Belcher, T. Edward
Bell, T. R.
Bethell, Capt. Leonard
Bethune-Baker, G. T.
Blaine, G.
Blane, Col. C. F.
Boettger, Dr. C. R.
Bombay Natural History Society.
Borley, J. O.
Borman, Major S. P.
Boulenger, E. G.
Boulenger, G. A.
Bower, B. A.
Boyd, Jermyn
Brabant, Mons. E.
Brander, A. A. Dunbar
Brauns, Dr. H.
Breadalbane, Marquis of, K.G.
Briggs, Rev. F. J.
British Columbia, Government of
British Ornithologists' Union.
British South Africa Company.
Broad, P. G.
Brocklebank, Capt. J. J.
Brooke, Dr. Gilbert E.
Broom, Prof. R.
Brown, E. A.
Brown, W. R.
Bruce, Dr. W. S.
Brussels Museum.
Bryant, E.
Bucks, Miss
Bullock, D. S.
Bulpett, C.
Bunting, R. H.
Burbridge, K. G.
Burnup, H.
Burr, Dr. Malcolm
Busck, August
Butler, A. L.
Butler, E. A.
Butler, E. D.
Buxton, B. H.
Buysson, Vicomte R. du
Byrne, L. W.

Caamaña Tenguel Estate, Ltd.
Calcutta, Indian Museum
California Academy of Sciences.
Cameron, Dr. M.
Campion, H.
Cane, A.
Cant, A.
Cape Town, South African Museum
Carleton, F. M.
Carnegie, Hon. Mrs.
Carter, A. E. J.
Carter, H. J.
Carver, Miss Irene
Castellani, Dr. A.
Cator, Douglas
Challis, Miss B.
Champion, A. M.
Champion, G. C.
Chapman, A.
Chapman, S. C.
Chapman, Dr. T. A.
Chevreux, Ed.
Chilton, Prof. Charles
Christie, Dr. W. L.
Christophers, Major T. R.
Christy, W. M.
Chubb, E. C.
Clark, R. S.
Clarke, E.
Clarke, Col. R. S.
Clarke, W. Eagle
Clifton, Mrs. Talbot
Cockburn, Maj. W. A. C.
Cockerell, Prof. T. D. A.
Cockerell, Mrs. W. P.
Collin, J. E.
Collins, Miss F.
Colvile, Col. E. F.
Congo Museum (*see* Tervueren).
Connolly, Major M.
Cook, J.
Cooke, Rev. A. H.
Cooke, A. T.
Cooper, W. Omer
Courtois, Rev. J.
Cowan, W.
Cranworth, Lord
Crawshay, L. R.

Crease, Herbert H.
Creighton, J.
Crosoer, F.
Crossland, C.
Cruickshank, Dr. G.
Crumplen, T.

Dalton, L. V.
Danford, Capt. B. V.
Darling, J. ff.
Darling, S. T.
Daukes, Capt. C.
Davis, Capt. G.
Daw, M. T.
Dawson, Charles
De Beers Consolidated Mines Co.
Dehra Dun, Forest Research Institute and College
Delft, A. van
Denbigh, Earl of, C.V.O.
Dendy, Prof. A., F.R.S.
Dennis, A. W.
Distant, W. L.
Dodsworth, P. T. L.
Dognin, Paul
Dollman, G.
Donisthorpe, H. St. J. K.
Dracopoli, I. N.
Dracopoli, J. C.
Drake-Brockman, Dr. R. E.
Dubois, M.
Dudgeon, G. C.
Dun, A. L.
Dunbar, L.
Duncan, N. C.
Dundas, Hon. Mrs. Kenneth
Dunn, Major H. N.
Dupont, P. R.
Dziedziski, Dr. H.

Eaton, Rev. A. E.
Edelstein, H. M.
Edington, Dr. A.
Edwardes, Hon. George
Egyptian Government.
Elliot, E. A.
Elwes, H. J., F.R.S.
English, T. M. S.
Entomological Research Committee.
Epps, Messrs. James, and Co.
Ewing, F.

Faber, Harold
Farquhar, J. N. J.
Federated Malay States (*see* Kuala Lumpur).
Ferrant, M. V.
Ferrer, Señor F.
Fisher, F. G.
Foulkes, R.
Fountaine, Miss M. E.
Fox, Rev. G. T. (the late)
Fox, J. C.
Fox, W. Storrs
Foy, Dr. H. Andrew
French, Charles
Frohawk, F. W.

Game Department, British East Africa
Gardiner, Prof. J. Stanley, F.R.S.
Garrett, H. B.
Garrett, Mewburn
Genoa Museum.
Gestro, Dr. R.
Gibbons, W. B.
Gibbs, E. A.
Gibson, Ernest
Giles, Lt.-Col.
Gillespie, J. W.
Godman, Dr. F. Du Cane, F.R.S.
Godwin-Austen, Lieut.-Col. H. H., F.R.S.
Goodall, T. B.
Goodfellow, Walter
Gould, A. R.
Gowdey, C. C.
Grabham, Dr. M.
Grabham, G. W.
Graham, J.
Grant, C. H. B.
Graves, P. P.
Green, E. E.
Green, H. L.
Grey, C.
Grosvenor, G. H. (the late)
Grouvelle, A.
Guinness, Hon. Walter
Guitel, Prof. F.
Gunning, J. W. B.
Gunthorpe, Col. E. J.

Haldane, R. C.
Hale, Rev. J. R.
Hall, A. L.
Hamburg Museum.
Hamilton, A.
Hamilton, Capt. J. S.
Hamlyn-Harris, R.
Hanitsch, Dr. R.
Hankin, Dr. E. H.
Hardy, Capt. E.
Hardy, G. S.
Harger, L.
Hargor, R. L.
Harington, Col. H. H.
Hartert, Dr. E. J. O.
Harvey, Henry
Haslemere Museum.
Hawkshaw, J. C.
Hayes, A.
Hayward, H. C.
Hedley, C.
Helliesen, Tor
Henn, F. B.
Henning, W. J.
Herdman, Prof. W. A., F.R.S.
Hewitt, J.
Hickson, Prof. S. J., F.R.S.
Hill, A. W.
Hilliard, J.
Hinde, Dr. S. L.
Hodgkins, Major C. R.
Hodson, Arnold
Hollis, E.
Holmes-Tarn, Capt. H.
Holt, E. W. L.
Hopwood, C.
Horsfall, H.
Houghton, B. L.
Howell, E. B.
Hudson, Mrs. Eva
Hume, A. O., C.B. (the late)
Hunt, A. W.
Hunti, A. W. Ward
Hurrell, H. E.
Hutchison, Capt. J.
Hutton, Samuel J.

Imms, Dr. A. D
Imperial Institute.
Indian Museum (*see* Calcutta).
Ingram, A.
Ingram, C.
Iredale, T.

Jack, R. W.
Jackson, Sir F. J., K.C.M.G.
Jackson, S. W.
Jacobson, E.
James, Sir Evan, K.C.I.E.
James, Mrs. H.
Janson, O. E.
Jenkins, Lady Madalene S.
Jenkinson, F.
Jennings, F. B.
Jenssen, Capt. G.
Jiacomi, Dr. de
Joubin, Prof. L.
Johnstone, J.
Jones, E. Dunkinfield
Jones, Major H.
Jones, R.
Jukes-Browne, A J., F.R.S.

Kaye, W. J.
Kenrick, Sir George H.
Kertész, Dr. K.
Kew, Royal Botanic Gardens
Key, A.
Keyser, C. E.
Kinnear, N. B.
Kirby, W. F. (the late)
Kirkaldy, Miss
Kirkpatrick, R.
Klaptser, Dr.
Kloss, C. Boden
Knox, Major S. G.
Kuala Lumpur, Federated Malay States Museum

Lake Ngami Expedition, Subscribers to the
Lamb, C. G.
Lampert, Dr. Kurt
Landon, Perceval
Lankester, C. H.
Lea, A. M.
Lebbe, Rev. B.
Ledyard, Prof. Edgar W.
Leicester, Dr. G. F.
Lett, Stephen J.
Levinsen, Inspektor G. M. R.
Lewis, J. E. A.
Lewis, R. F.
Liardet, C.

Lisbon Museum.
Little, Capt. C. Hunter
Littledale, Capt. H. A. P.
Littledale, St. George
Liverpool School of Tropical Medicine.
Loder, Sir E. G., Bart.
London School of Tropical Medicine.
Longstaff, Dr. G. B.
Loveridge, A.
Lovett, Dr. T.
Lowe, Rev. F. E.
Lundstrom, Dr. C.
Luvoni, A. B.
Lyell, D. D.
Lyell, J. C.
Lyons, Capt. C.
Lyons Museum.

McClymont, J. R.
McConnell, F. V.
MacDougall, Prof. R. S.
McDowall, C. H.
MacFie, Dr. J. W. F. S.
McGregor, J. Laird
Mackenzie, D.
Mackenzie, M.
McLeay, Dr. C. W.
McMillan, W. N.
Mackwood, F. M.
Malloch, P. D.
Mallock, A.
Mally, Miss Lily
Maplestone, C. M.
Marcus, E.
Marré, E.
Marshall, Dr. C. H.
Marshall, G. A. K.
Mason, Frank
Maw, W. A.
Maxwell-Lefroy, Prof. H.
May, W. L.
Meade-Waldo, E. G. B.
Melvill, Dr. J. C.
Menzies, Rev. H.
Merrins, Mrs. E. M.
Methuen, Hon. Paul
Metropolitan Water Board.
Migeod, F. W. H.
Millar, A. E.
Millar, Rev. E.
Miller, J. H.
Mitzmain, W. B.
Moggeridge, W.
Morice, Rev. F. D.
Morley, Claude
Morrell, Capt. A.
Morrison, Dr. W.
Mosely, Martin E.
Moss, Rev. A. Miles
Moss, Frank A.
Moss, W.
Mouchet, M.
Moulton, J. C.
Mounsey, J. J.
Mundie, J.
Munt, H.

Navás, R. P. Longinos, S. J.
Neave, S. A.
Netolitzky, Dr. F.
Newbery, E. A.
Newill, R. H.
Newstead, Prof. R., F.R.S.
Nichol, Col. C. E.
Nicholls, Dr. L.
Nicholson, C.
Nicholson, Dr. G. W.
Nurse, Col. C. G.
Nuttall, Prof. G. H. F., F.R.S.

O'Connor, D.
Ogilvie-Grant, W. R.
Olclaker, F. A.
Oman, Dr. J.
Osborne, General
Osburn, Prof. R. C.
Ottewill, H. A.
Owen, G. Fenwick

Pachundaki, D. E.
Palmer, R. Foster
Pará Museum.
Paris, Muséum d'Histoire Naturelle
Park, Mungo
Parsons, Dr. Allan C.
Patterson, A. H.
Patterson, R.
Paulson, R.
Peile, Major A. J.
Percival, A. Blaney
Perez, Dr. G. V.
Perkins, Dr. R. C. L.
Petrie, Prof. W. M. Flinders, F.R.S.

Philpott, Miss
Pic, Maurice
Pilcher, Col. J. G.
Pixell, Miss H. L. M.
Pollard, Dr. J. McFarlane
Ponsonby, J. H.
Porteous, Dr. E. J.
Potts, F. A.
Prall, Lt.-Col.
Prater, S. W.
Pratt, E.
Prell, H.
Preston, H. B.
Prichard, B. W. O.
Priestley, E.
Prout, L. B.
Pryce, Dr. T. E.
Pusa, Agricultural Research Institute

Quelch, J. J.

Rachow, A.
Racovitza, E. G.
Radford, Dr. W. J.
Rae, Capt. M. E.
Rainer, A. J.
Ramsden, Charles T.
Randall, Mrs.
Ratcliff, F. R.
Rawson, Lieut. G.
Reid, D. W.
Rhoades, E. L.
Roberts, F. Russell
Roberts, J.
Robertson, Major R. B.
Robins, E.
Robinson, H. C.
Rodway, G.
Rosenberg, W. F. H.
Rothschild, Hon. N. C.
Rothschild, Hon. Walter, F.R.S.
Roubaud, Èmile.
Round, Dr. J. Cornwell
Royal Society and British Association, Joint Committee of, for the Exploration of the Sandwich Islands.
Rubin, Mrs. M.
Rutherfurd, W. G.

Saddle, A. W.
St. Quintin, W. H.
Sampson, Col. F. Winn
Sanders, Lieut. J. D. G.
Sarawak Museum.
Schaus, W.
Schulthess-Rechberg, Dr.
Schultz, F. Howard
Sclater, Dr. P. L., F.R.S.
Scott, H. H.
Scott, Hugh
Scott, R. L.
Seimund, E.
Selous, F. C.
Sharp, W. A. W.
Sharp, W. E.
Sheldon, W. G.
Shiraki, T.
Shirley, Dr. J.
Shufeldt, Dr. R. W.
Sicard, Surg.-Major A.
Sich, A.
Sikes, F. H.
Silver, Capt. W.
Silverlock, O. C. (the relatives of the late).
Silvestri, Prof. F.
Simpson, Dr. J. J.
Sims, A. D.
Smart, Dr. A. G. H.
Smith, Mrs. B. Oliver
Smith, Canon F. C.
Smith, Dr. G. F. Herbert
Smith, M. Bosworth
Smith, M. P. Traill
Smith, S.
Smithers, W. A.
Someren, Dr. R. van
Somerville, B. T.
South, R.
South African Museum (*see* Cape Town).
Southoff, M. G. de
Spurrell, Dr. H. G. F
Stanton, Dr. A. T.
Starke, J. C.
Starke, J. J.
Staty, Eric
Stenning, A. N.
Stephens, Mrs.
Suarez, A.
Surcouf, Baron J. M. R.
Swale, Dr. H.

Swinhoe, Col. C.
Sydney, Australian Museum
Sykes, Major P. M
Synge, Dr. Ella

Tachibana, Z.
Talbot, P. A.
Tanganyika Exploration Committee.
Tattersall, Dr. W. M.
Taylor, Frank H.
Tervueren, Congo Museum
Thacker, T. Lindsay
Thomas, N. W.
Thomas, O., F.R.S.
Thompson, D'Arcy W., C.B.
Thompson, T.
Thomson, R. M.
Thorburn, A.
Thurburn, Percy C.
Tokio Museum.
Tomlin, J. R. Le B.
Tosh, Dr. J. R.
Townsend, F. W.
Towse, Sir J. Wrench
Trevandrum Museum.
Trevelyan, Major H.
Turner, Dr. A. J.
Turner, R. E.

United States National Museum (*see* Washington).
Uzzell, Thos. H.

Vallentin, R.
Vávra, Dr. V.
Velleneuve, Dr. J.
Verity, R.
Verrall, G. H. (the late)
Vickers, J.
Vinciguerra, Prof. D.
Vipan, Capt. H.
Vosmaer, Prof. G. C. J.
Vuillot, Mons. P.

Waddington, H. J.
Wade-Dalton, Colonel H.
Walker, Commander J. J., R.N.
Wallis, J. B.
Walsingham, Lord, F.R.S.
Walton, J. W.
Ward, J. Rowland (the late)
Washington, U.S. National Museum
Waterfield, Dr. M. E.
Waterfield, Noel E.
Waterhouse, C. O., I.S.O.
Waterhouse, G. A.
Waterston, Rev. James
Watson, Dr. C. F.
Webb, H. W.
Weinhausen, H.
Wenyon, Dr. C. M.
Wertheimstein, Fräulein Sarolta von
Westcott, J. R.
Westmacott, J. L.
Whitehead, Capt. C. H. T.
Whittle, F. G.
Wickwar, O. S.
Wiesbaden Museum.
Willey, Prof. A., F.R.S.
Wilmer, Lieut.-Col. L. W.
Wilson, C. J.
Wilson, H.
Wodehouse, Lord
Wolfenden, Dr. R. N.
Wolffsohn, John A.
Wolley-Dod, F. H.
Wolterstorff, Dr. W.
Wood, Rodney C.
Woodford, C. M.
Woodforde, F. C.
Woodhouse, C. W.
Woosnam, R. B.
Wray, C.
Wroughton, Mrs. L.
Wroughton, R. C.
Wynne, Lt. O. E.

Yerbury, Lieut.-Col. J. W.
Youngs, Miss Ella Sharpe

Zoological Society of London.
Zurcher, Mrs. F. A.

VI.—*Economic Zoology.*

The work of the Department in Economic Zoology was continued with the assistance, during the first five months of

the year, of the late Mr. Lionel Armstrong, whose services as a specialist had been engaged in December of the previous year. In addition to attending to several inquiries, Mr. Armstrong made considerable progress in the preparation of the card-index to insect pests and to the literature bearing upon them, as well as in the arrangement of the economic collections. The loss of his services occasioned by his illness and his subsequent death on the 6th August was greatly felt. It was unfortunate, also, that Mr. Maxwell-Lefroy had been unable to give more than a small amount of time to the work during the year. Such time as he gave to it was given voluntarily; and his advice was often sought and freely given, with great benefit to the Department, in matters of economic interest which required special knowledge and experience to deal with.

The Economic collections have been added to considerably as a result of the work of the Entomological Research Committee; and the Secretary of the Committee, Mr. Guy Marshall, when visiting the West Indies in the early part of the year, helped materially in the investigation relating to the beetle *Phytalus smithi* Arrow, mentioned in the return for 1911 as very destructive to sugar-canes in Mauritius. Mr. Marshall discovered the presence of the beetle in Barbados, which is probably its native habitat, and discovered there also a Hymenopterous parasite of the beetle—facts which have since been communicated to the Government of Mauritius. Inquiries have continued to come from various parts of the world.

Amongst the objects on which information and advice have been sought, and as far as possible given, the following may be mentioned:—

I. Pisces.

Damage to a submarine cable, caused apparently by the bite of a Deep-sea Fish (Eastern and Associated Telegraph Companies).

II. Insecta.

A. Diptera.

1. Distribution of the Orange fly (*Ceratitis capitata*). (Information on this matter requested by, and supplied to Prof. F. Silvestri.)
2. A species of fly (*Bibio* sp.) serving as food for the Red Grouse (*Lagopus scoticus*).
3. Maggots (Dipterous larvæ) in frozen rabbits from Australia.
4. Flies infesting a house. (Species identified for Dr. S. Monckton Copeman, F.R.S., Local Government Board.)
5. A fly (*Hippobosca maculata*) parasitic on cattle from S. India, which had just arrived at Singapore. (Specimens sent by and information supplied to Dr. Gilbert E. Brooke, Port Health Officer, Singapore.)

6. Blood-sucking flies (Tabanidæ) from Rhodesia, identified for the Government Entomologist, Salisbury, Rhodesia.
7. Midges (*Chironomus* spp.) eaten by trout. (Information supplied to M. E. Mosely, Esq.)
8. Treatment for mosquito bites in England.
9. Blood sucking midges (*Leptoconops kerteszi*) causing trouble to mules, Ouargla, Southern Algeria.
10. Larva of a Syrphid fly (*Senaspis hæmorrhoa*) found in diseased spot in the trunk of coco-nut palm in Portuguese East Africa.
11. A gall-midge (*Dasyneura tiliamvolvens*) producing galls in buds of lime trees in Essex.
12. A species of Tabanidæ (*Tabanus striatus*, Fab.) supposed to be concerned in the dissemination of surra in the Philippine Islands. (The species identified for, and information as to its distribution supplied to Department of Entomology, College of Agriculture, University of the Philippines.)
13. The narcissus fly (*Merodon equestris*) attacking Daffodil bulbs.
14. Larvæ of a Bibionid fly (*Dilophus febrilis*) damaging the roots of grass.

B. LEPIDOPTERA (Moths, etc.).

15. The flour-moth (*Ephestia kühniella*) and other insects in biscuits and cereal foods, and infesting flour mills in London and other parts of the country.
16. The raspberry moth (*Lampromia rubiella*) killing raspberry canes.
17. Microlepidoptera of various species attacking lupin, lucerne, potato, and tobacco in Rhodesia. (Species identified for, and other information supplied to the Government Entomologist, Salisbury, Rhodesia.)
18. A moth (*Gelechia malvella*) destructive to seeds of Hollyhock in gardens in Surrey.
19. Moths (*Gelechia gossypiella* and *Pyroderces gossypiella*) injurious to cotton in Egypt and Zanzibar.
20. "Boll-worm" in diseased cotton from Nigeria.

C. COLEOPTERA (Beetles).

21. The possibility of damage by beetles or other insects to aerial telephone cables in England similar to that caused by them in Australia and South America. (Inquiry from Sir John Gavey, Consulting Engineer to the Post Office.)
22. Larvæ of a Longicorn beetle (*Acrocinus longimanus*) damaging rubber trees (*Castilloa*) in Ecuador.
23. Beetles (*Dermestes vulpinus*) in chests of tea.

24. A weevil (*Orchestes fagi*) reported to be attacking apples in Devon.

25. Larvæ of weevil (*Otiorrhynchus sulcatus*) attacking Begonias in pots.

26. Beetles (*Cathorama herbarium*) damaging the bindings of law books in the library of the Prosecuting Attorney for the Isthmian Canal Commission at Panama.

27. Beetles (*Sitodrepa panicea*) found in flock bedding.

28. Damage to wood by beetle larvæ. (An inquiry from the Royal Institute of British Architects.)

29. A Melolonthid beetle (*Lachnosterna* sp.) which, like the *Phytalus smithi* reported on in 1911, has been doing considerable damage to sugar-canes in Mauritius.

D. ORTHOPTERA and NEUROPTERA (Crickets, "White Ants," etc.).

30. The presence and distribution of "white ants" in New Zealand, with reference to provision against their attacks when laying telegraph cables.

31. Treatment of furniture to prevent attack by "white ants" in tropical countries.

32. Crickets (*Brachytrypes vastatrix* and *Gryllus atratus*) attacking Cacao trees in Sierra Leone; and *Brachytrypes membranaceus* reported to be damaging cocoa and rubber trees in Uganda.

III. MYRIOPODA (Millipedes, etc.).

A millipede (*Julus guttulatus*) damaging strawberries.

IV. ARACHNIDA (Ticks, Mites, etc.).

1. A mite (*Tyroglyphus longior* var. *castellanii*) causing Copra-itch among people working in Copra-mills in Ceylon. (Report on, and description of the Mite published.)

2. A Mite (*Tarsonemus spinipes*) injurious to sugar-cane in Barbados.

3. A Tick (*Ixodes ricinus*) found on a cat.

4. House-mites (*Glycyphagus*) in houses and on furniture. (Several inquiries received during the year.)

V. MOLLUSCA.

Identification of freshwater mussels (*Dreissensia polymorpha*) from mains supplying filtering beds of the Metropolitan Water Board at Hampton-on-Thames.

VI. POLYZOA.

Growth of these animals leading to serious trouble in the pipes of Waterworks. (Specimens examined for several Municipalities, etc., and information supplied.)

VII.—*Students and Visitors.*

The number of visits paid to the Zoological Department during the year 1912 by Students and other persons requiring assistance or information amounted to 12,564.

In the 10 previous years the numbers were :—

12,175	in the year	1911.
12,443	,,	1910.
11,461	,,	1909.
10,220	,,	1908.
11,043	,,	1907.
10,813	,,	1906.
11,811	,,	1905.
11,824	,,	1904.
11,627	,,	1903.
10,633	,,	1902.

Sidney F. Harmer.

Department of Geology.

I.—*Arrangement and Conservation.*

Mammalia (Galleries 1 and 2).—The skulls of Zeuglodonts have been arranged in a separate section of pier-case 4.

The collection of Rhinoceridæ and Titanotheriidæ in pier-case 8 has been cleaned, re-labelled, and partially re-arranged to admit recent acquisitions.

The collection of Suidæ and Camelidæ in pier-case 13 has been cleaned and completely re-arranged and labelled, and numerous specimens have been mounted on wooden stands. A skull and other remains of *Elotherium* have been prepared and mounted in one section of this case.

Wall-case 28 has been cleaned and re-arranged to accommodate some large bones of *Elephas primigenius* from Alaska.

The remains of *Elephas* from India in pier-case 34 have been mounted, re-arranged, and re-labelled.

Numerous Tertiary Mammalian remains from British East Africa and Baluchistan have been prepared for study.

Number of specimens of Mammalia registered, 72.

Aves (Gallery 2).—An important specimen of *Ichthyornis* from the Chalk of Kansas, showing the sternum and associated parts, has been prepared for study and exhibition.

Number of specimens of Aves registered, 2.

Reptilia and Batrachia (Galleries 3, 4, 5, 11).—The table-cases of Ornithosauria have been re-arranged, while a new specimen of *Pterodactylus scolopaciceps* and a plaster cast of *Dorygnathus* have been added to the collection.

A large new central case has been provided for the Jurassic marine crocodiles. One skeleton of *Steneosaurus* and other portions of skeletons of the same genus and of *Metriorhynchus*, from the Oxford Clay of Peterborough, have been mounted in this case.

Plaster casts of Dinosaurian footprints from the Wealden of Crowborough, Sussex, have been mounted on the north wall of Gallery 11.

The skull of *Triceratops*, with other remains of the same genus, has been mounted and labelled in a new central case in Gallery 4.

Part of wall-case 8 has been re-fitted to accommodate a plaster cast of the skull and mandible of *Tyrannosaurus rex* from the Upper Cretaceous of Montana, U.S.A.

Progress has been made in the preparation and arrangement of the Leeds Collection of Oxfordian Marine Reptiles in wall-cases in the S.E. Basement; and the other unexhibited Plesiosaurian remains have been removed to adjacent cases, in which they are arranged and indexed.

Wall-case 19, Gallery 5, has been partially re-arranged to admit new plaster casts of *Archegosaurus;* and some large plaster casts of Labyrinthodonts have been mounted on the top of the case.

Number of specimens of Reptilia and Batrachia registered, 443.

Pisces (Gallery 6).—The exhibited collection of *Ptychodus* in table-case 8 has been re-arranged and partially re-labelled, while several important new specimens have been prepared and added.

A large new upright case has been provided in the middle of the gallery, and a nearly complete skeleton of *Portheus molossus*, 14 feet in length, from the Chalk of Kansas, has been mounted on one side of it. The opposite side of this case has been fitted for slabs of Chimaeroids and Batoid Selachians.

Additional Tertiary fishes have been prepared, framed, and mounted for exhibition in wall-cases 17, 18.

Numerous Chalk fishes have been extricated from the matrix, and various other recent acquisitions have also been prepared for study and exhibition.

Number of specimens of Pisces registered, 81.

Mollusca (Galleries 7 and 8, and Workroom).—The Cephalopoda registered and labelled include:—Ammonites from the Chalk of Kent, Belemnites from the Chalk of Rugen, Ammonoids and Belemnites from the Cretaceous of Germany, and plaster-casts of figured specimens (mostly types) of Ammonites from the Spiti Shales of the Himalayas.

Important additions to the exhibited collection of Cephalopoda are:—The type specimen of *Belemnocamax boweri* from the Chalk of Lincolnshire (table-case 16), a large Scaphite from the Chalk of Yorkshire (table-case 14), and two specimens of *Actinoceras giganteum* from the Carboniferous Limestone of the Isle of Man (wall-case 1) and of Westmoreland (table-case 2).

The unexhibited portion of the Gilbertson Collection of Cephalopoda has been removed from Gallery XI., and has been re-labelled for incorporation with the General Collection.

The exhibited Carboniferous Nautiloids have been re-arranged in table-case 2.

The Palæozoic Gastropoda and Lamellibranchia registered, labelled, and incorporated include:—Gastropoda and Lamellibranchia from the Ordovician of Westmoreland (F. A. Bather Coll.), the type-specimens of *Planorbis dixoni* and *Naiadites madagascariensis* from the Permo-Carboniferous of Madagascar (G. Dixon Coll.); Lamellibranchia from the Permo-Carboniferous of Nyasaland) (A. R. Andrew and T. E. G. Bailey Coll.), from the Coal Measures of the Bristol Coalfield (H. Bolton Coll.), from the Permian of Russia (J. A. Stigand Coll.), and from the British Carboniferous rocks; a block of weathered

Carboniferous Limestone from Lough Erne, containing *Bellerophon*, &c. (presented by Major Herbert Trevelyan). A collection of Gastropoda and Lamellibranchia from the Calciferous Sandstone of Fifeshire (James Wright, Jun., Coll.) has been registered and prepared for incorporation.

The unexhibited portion of the Gilbertson Collection of Carboniferous Gastropoda and Lamellibranchia has been removed from Gallery XI. and is being re-labelled for incorporation with the General Collection.

The Mesozoic and Tertiary Gastropoda and Lamellibranchia registered, labelled, and incorporated include:—Tertiary shells from Cyrenaica described in Quart. Journ. Geol. Soc., 1911 (J. W. Gregory Coll.); French Tertiary shells (L. Staadt Coll.); Lamellibranchia from the Miocene of Chili; and non-marine Tertiary shells from Cos (E. Forbes Coll.), Germany (K. Fischer Coll.) Spain, Belgium, Switzerland, Russia, Roumania, and Asia Minor. Important additions to the exhibited collection are plaster casts of species of *Inoceramus* from the Cretaceous of Saxony and Bohemia, Miocene Lamellibranchs from India and Chili, and Pliocene shells from the Mekran coast, Baluchistan (C. Birley Bequest).

The exhibited specimens of *Inoceramus* from the English Chalk have been re-arranged and re-labelled, in accordance with the Palæontographical Society's Monograph by Mr. H. Woods.

Numerous Cretaceous and Tertiary Mollusca from various parts of Africa have been determined and named.

The Mollusca and other invertebrate fossils from Norway, Sweden, Belgium, Denmark, and Holland in the Geological Society's collection, have been cleaned and prepared for study and registration.

Number of specimens of Mollusca registered: Cephalopoda, 291; Gastropoda, 2,979; Lamellibranchia, 1,938.

Arthropoda (Gallery 8 and Workroom).—The acquisitions registered, labelled, and incorporated include:—Insects in amber (Blattidæ described by the late R. Shelford, and the Termites studied by Kurt Baron Rosen); Trilobites from the Olenellus Limestone of Comley, Shropshire, the Shineton Shales (H. Keeping Coll.), the Cambrian of Hérault, the Lower Ordovician of Bohemia (Klouček Coll.), and the Upper Ordovician of Keisley and Dufton, Westmoreland (Bather Coll.); Cirripedes from the Cenomanian of Bohemia (Perner Coll.), the Chalk detritus of Charing (W. Harris Coll.), the Senonian of Hanover, the Mæstrichtian of Holland (Bosquet Coll.), the Pliocene of the Mekran Coast (C. Birley Bequest, F. W. Townsend Coll.), and the Crags of East Anglia (Sowerby, S. V. Wood, Wigham Colls.); Ostracoda from the Kimmeridge and Oxford Clays of Bucks, the Chalk Marl of Cambridgeshire, the London Clay of London (F. Möckler Coll.), and Cretaceous and Tertiary Rocks of various European localities (Geisendörfer Coll.); various Crustacea from the Calciferous Sandstone, Fife

(J. Wright Coll.), the Coal Measures of Derbyshire (L. Moysey Coll.) and Gloucestershire (H. Bolton Coll.), the Lias of England (Brodie, Buckman, Harford Colls.), the Bathonian of Northamptonshire (Jesson Coll.), the Wealden of Hastings (Teilhard and Pelletier Coll.), the Cretaceous of Hanover (Schrammen Coll.), and the Oligocene of the Isle of Wight (A'Court Smith Coll.).

The unexhibited Arachnida and Merostomata have been removed to the new cabinets in the Workroom. The specimens of *Parka decipiens* have been examined and transferred to the fossil plants.

Several hundred specimens of insects in amber have been trimmed and polished, and they are being placed for better preservation in glass cells in a specially prepared resin.

Among additions to the exhibited collection are remains of the Cirripede, *Brachylepas naissanti*, and an electrotype of the type-specimen of the Silurian scorpion, *Palæophonus caledonicus*. One of the specimens of *Paradoxides davidis* has been cleaned and identified as the type.

The slip-catalogue of exhibited specimens has been continued.

Number of specimens of Arthropoda registered, 2,384.

Echinoderma (Gallery 8). — The acquisitions registered, labelled, and incorporated include : — Echinoidea from the Viséan Limestone of Belgium, the Mesozoic and Tertiary of various European localities (T. Wright Coll.), the Cretaceous and Tertiary of Egypt (Geol. Survey Egypt and C. W. Andrews Coll.), the Cretaceous of Hanover (A. Schrammen Coll.), the Chalk Marl near Cambridge (F. Möckler Coll.), the Senonian of Rügen (A. Laur Coll.), the Jan Jukian beds of Victoria (Cudmore Coll.) and the Priabonian and Aquitanian of Cyrenaica (J. W. Gregory Coll.) ; Asteroidea from the Ordovician of Canada (W. R. Smith Coll.), the Toarcian of May, Calvados (D. M. S. Watson Coll.) ; Ophiuroidea from the Calciferous Sandstone of Fife (J. Wright Coll.), and the Chalk Marl near Cambridge (F. Möckler Coll.) ; Crinoidea from the Ordovician of Ontario (F. Springer and W. R. Smith Colls.), the Viséan Limestone of Belgium, the Calciferous Sandstone of Fife (J. Wright Coll.), the Toarcian of May (Watson Coll.), the Tithonian of Stramberg (M. Remeš Coll.), the Cretaceous of Hanover (Schrammen Coll.), and the Chalk Marl near Cambridge (Möckler Coll.) ; Blastoidea from Somerset, described by Bather, 1912 (Tutcher Coll.) ; Cystidea from the Cambrian and Ordovician rocks of Bohemia (Barrande, Bohemian Museum, Klouček, Perner Colls.), the Ordovician of Ontario and Quebec (W. R. Billings and W. R. Smith Colls.), and the Devonian of Nassau (U. Green Coll.).

Various additions have been made to the exhibited British Silurian Crinoids, and several of the explanatory labels have been revised and reprinted.

The slip-catalogue of exhibited specimens has been continued.

Progress has been made in the revision and rearrangement of the Cystidea.

Number of specimens of Echinoderma registered: Echinoidea, 583; Asteroidea and Ophiuroidea, 25; Crinoidea, 385; Blastoidea, 2; Cystidea, 89. Total, 1,084.

Annelida (Gallery 8 and Workroom).—The acquisitions registered, labelled, and incorporated include specimens from the Calciferous Sandstone of Fife (J. Wright Coll.), the Neocomian of Hanover (A. Schrammen Coll.), the Chalk Marl near Cambridge (F. Möckler Coll.), and the Upper Cretaceous of Egypt (Geol. Survey Egypt).

A few additions have been made to the exhibited series, and some labels revised and reprinted. The slip-catalogue of these additions has been continued.

Number of specimens of Annelida registered, 70.

Brachiopoda (Gallery 8 and Workroom).—Progress has been made with the registration of the foreign specimens in the Walker Collection, which is now nearly completed.

Number of specimens of Brachiopoda registered, 13,811.

Polyzoa (Gallery 8 and Workroom).—Recently-acquired specimens of Cretaceous Polyzoa, chiefly from Cambridge, Dorset, Kent, Surrey, Sussex, and Rügen, have been cleaned, mounted, and registered as a preliminary to the preparation of Vol. III. of the Catalogue of Cretaceous Polyzoa. Of specimens from other formations registered and incorporated, the chief is that of Russian Ordovician Polyzoa, partly collected and presented by Dr. F. A. Bather, partly acquired from Dr. R. S. Bassler, who has identified and described the whole collection in Bulletin, No. 77, of the Smithsonian Institution.

Number of specimens of Polyzoa registered, 2,706.

Anthozoa and Hydrozoa (Gallery 10).—A special case has been made and placed in the middle of Gallery 10 for exhibiting part of a collection of Carboniferous Corals made by Dr. Vaughan, and illustrating the zonal divisions recognised by him in the Carboniferous Limestone of the Avon Gorge by means of the contained Corals.

The rest of Dr. Vaughan's Collection of Carboniferous Corals has been registered, and other newly-acquired specimens have been registered and incorporated, chief among which are specimens from the Ordovician of Westmoreland (F. A. Bather Coll.), Carboniferous of Ireland (Mrs. A. S. Woodward Coll.), Cretaceous of Kent (Dibley, Gamble Colls.), Miocene of Burma (Dalton, Macrorie Colls.), and the Tertiary of Victoria (Cudmore Coll.).

Number of specimens of Anthozoa and Hydrozoa registered, 573.

Porifera (Gallery 10).—Newly-acquired specimens (chiefly small examples sorted from the large collections of Polyzoa) from the Cretaceous of England and Rügen have been registered and incorporated.

Number of Porifera registered, 116.

Protozoa (Gallery 10).—Large collections of Foraminifera newly acquired from the Lias of Würtemberg (Issler Coll.), the Cenomanian and Turonian of Dresden (Geisendörfer Coll.), the Cenomanian of Cambridge, and the Senonian of Surrey (Möckler Coll.), have been registered and labelled.

Number of Protozoa registered, 3,947.

Plantæ (Gallery 10).—A selection from the Marcus Gunn Collection of Jurassic Plants from Sutherland has been mounted, labelled, and arranged for exhibition in table-case 22.

In connection with the Catalogue, progress has been made with the revision of the Cretaceous plants, and numerous microscope-sections of Cretaceous woods have been prepared.

Number of specimens of Plantæ registered, 327.

Tracks and Rock Specimens (Gallery 11). — The exhibited collection in wall-case 8 has been cleaned and partly re-labelled.

Number of specimens registered, 33.

II.—*Duplicates and Exchanges.*

Duplicate fossils have been presented to the Goldsmiths' College (University of London), Bethlem Hospital, and the Museums of Peterborough and Barry. Duplicate specimens from the Geological Society's Collection have also been presented, with the sanction of the Council of the Geological Society, to the Welsh National Museum and the Norwich Castle Museum.

Exchanges of duplicate fossils and plaster casts have been made with the Royal State Museum, Stockholm ; the Mineralogical Museum, University of Copenhagen ; the Royal Natural History Cabinet, Stuttgart ; and also with Messrs. F. A. Cudmore (Melbourne), E. B. Lotherington (Scarborough), C. H. Joos (Stuttgart), and H. Andert (Ebersbach, Saxony).

III.—*Departmental Library.*

The additions to the Library, which have been registered, stamped, catalogued, and press-marked, comprise 201 new works and pamphlets, of which 46 were purchased and 155 presented ; 604 parts of serials in progress, of which 281 were purchased and 323 presented ; 122 sheets of maps were acquired, 55 by purchase and 67 by donation. 17 photographs were presented.

Two hundred and six volumes have been bound, press-marked and returned to the shelves. 2,224 visitors made use of the Library.

The following is an alphabetical list of personal donors to the Library :—

Andrews, Dr. C. W.
Arber, Dr. E. A. N.
Bather, Dr. F. A.
Bayer, Prof. Franz.
Caziot, Commd. E.
Derby, Dr. Orville A.
Dollfus, Prof. G.
Dunlop, A., Esq.
Feuerheerd, Mrs.
Gothan, Dr. W.
Gregory, Prof. J. W.
Gude, G. K., Esq.
Guppy, R. J. L., Esq.
Hankin, Dr. E.
Hauff, Herr B.
Irving, Rev. A.
Jackson, J. W., Esq.
Jaekel, Prof. Dr. O.
Johnson, Dr. T.
Knipe, H. R., Esq.
Lydekker, R., Esq.
Newton, R. B., Esq.
Nopcsa, Baron F.
Nowak, Dr. Jan
Oliver, Prof. F. W.
Pavlow, Dr. Marie
Scott, Dr. D. H.
Schuchert, Prof. C.
Scrivenor, J. B., Esq.
Seeber, Dr. H.
Sergi, Prof. G.
Seward, Prof. A. C.
Sherborn, C. D., Esq.
Smith, Dr. Warren D.
Stefanini, Prof. Dr. G.
Steinmann, Prof. Dr. G.
Szadeczky, Prof. J.
Thomas, H. H., Esq.
Wenz, Dr. W.
Withers, T. H., Esq.
Woodward, Dr. A. S.
Ziegler, Dr. V.

IV.—*Publications.*

The proofs of the second part of the Catalogue of Marine Reptiles of the Oxford Clay and the first part of the Catalogue of Cretaceous Plants have been read, and both volumes are nearly completed.

Apart from the official publications issued by the Trustees, the following descriptive papers dealing with different parts of the collection have been contributed to scientific journals during 1912 :—

By Dr. A. S. Woodward.

1. Note on a Maxilla of *Triconodon* from the Middle Purbeck Beds of Swanage. Proc. Geol. Assoc., vol. xi., pp. 291–297, pl. xiv.

2. Description of the Teeth of two new Species of Fishes from the Lower Carboniferous [*Deltodus garwoodi* and *Cochliodus virgatus*]. Quart. Journ. Geol. Soc., vol. lxviii., pp. 572–574, pl. lii.

3. On the snout of a Pachycormid Fish (*Protosphyraena stebbingi*) from the Lower Chalk of South Ferriby, Lincolnshire. The Naturalist, 1912, pp. 329, 330, pl. xix.

By Dr. F. A. Bather.

1. Notes on *Hydreionocrinus*. Trans. Edinb. Geol. Soc, vol. x., pp. 61–76, pl. viii.

2. Tapering ends of crinoid stems from Roscobie. *Tom. cit.*, pp. 77–79.

3. Two Blastoids (*Orophocrinus* and *Acentrotremites*) from Somerset. Proc. Bristol Nat. Soc. [4], vol. iii., pp. 47-50, pl.

By Mr. R. B. Newton.

1. On the Lower Tertiary Mollusca of the Fayum Province of Egypt. Proc. Malac. Soc., vol. x., pp. 56-89, pls. iii–iv.

2. [With Mr. E. A. Smith.] On the survival of a Miocene Oyster in Recent Seas. Rec. Geol. Surv. India, vol. xlii., pp. 1–15, pls. i–viii.

By Dr. C. W. Andrews.

1. Note on the Molar Tooth of an Elephant from the Bed of the Nile, near Khartum. Geol. Mag. [5], vol. ix., pp. 110–113.

2. On the Importance of Africa in Vertebrate Palæontology, Journ. E. Africa and Uganda Nat. Hist. Soc., vol. ii., pp. 109-113.

By Mr. W. D. Lang.

1. Carboniferous Zones illustrated by Corals. Geol. Mag. [5], vol. ix., pp. 435–437.

2. Palæontology and Bernard's Biological Theories. *Loc. cit.*, pp. 550–558.

By Mr. T. H. Withers.

1. The Cirripede "*Brachylepas cretacea*," H. Woodward. Geol. Mag. [5], vol. ix., pp. 321–326, 353–359, pl. xx.

2. Two New Species of Cirripedia from the Tithonian of Stramberg, Moravia. *Tom. cit.*, pp. 505–508, pl. xxiii.

3. Some early Fossil Cirripedes of the Genus *Scalpellum*. Proc. Zool. Soc., 1912, pp. 528-539.

By Miss D. M. A. Bate.

1. On a New Species of Mouse and other Rodent Remains from Crete. Geol. Mag. [5], vol. ix., pp. 4-6.

By Baron F. Nopcsa.

1. Notes on British Dinosaurs, Part V.: *Craterosaurus* (Seeley). Geol. Mag. [5], vol. ix., pp. 481–484.

By Mr. D. M. S. Watson.

1. On some Reptilian Lower Jaws. Ann. Mag. Nat. Hist. [8], vol. x., pp. 573–587.

By Mrs. Jane Longstaff.

1. Some New Lower Carboniferous Gastropoda. Quart. Journ. Geol. Soc., vol. lxviii, pp. 295-309, pls. xxvii-xxx.

By Mr. G. K. Gude.

1. Note on *Vequesnelia* of Deshayes from the Miocene (Sarmatian) of Turkey. Proc. Malac. Soc., vol. x., pp. 19, 20.

By Dr. J. W. Evans and Mr. R. W. Pocock.

1. The Age of the Morte Slates. Geol. Mag. [5], vol. ix., pp. 113–115.

By Dr. R. T. Jackson.

1. Phylogeny of the Echini, with a revision of Palæozoic species. Mem. Boston Soc. Nat. Hist., vol. vii., 492 pp., 76 pls.

By Mr. H. L. Hawkins.

1. On the Evolution of the Apical System in the Holectypoida. Geol. Mag. [5], vol. ix., pp. 8–16, pl. ii.
2. A New Species of *Fibularia* from Nigeria. *Tom. cit.*, pp. 297–301, pl. xvi.
3. The Classification, Morphology and Evolution of the Echinoidea Holectypoidea. Proc. Zool. Soc., 1912, pp. 440–497.

By Dr. M. C. Stopes.

1. Petrifactions of the Earliest European Angiosperms. Phil. Trans., vol. 203 B., pp. 75–100, pls. vi–viii.

By Miss Theodora L. Prankerd.

1. On the Structure of the Palæozoic Seed *Lagenostoma ovoides*, Will. Journ. Linn. Soc., Bot, vol. xl., pp. 461–490, pls. 22–24.

Various fossils in the Department of Geology have also been described and figured by Mr. H. Woods, Mr. P. Lake, Miss Elles, and Mrs. Shakespear, in the Monographs of the Palæontographical Society, vol. lxvi. for 1912.

V.—*Acquisitions.*

A.—*By Donation.*

British East African Fossils.—A series of Mammalian and other Vertebrate remains and Mollusca collected by Dr. Felix Oswald from the Tertiary and Post-Tertiary formations in British East Africa near Victoria Nyanza. *Presented by the Subscribers to the Expedition (W. E. Balston, Esq., W. Heward Bell, Esq., Rev. R. Ashington Bullen, Sir Henry H. Howorth, H. R. Knipe, Esq., Dr. G. B. Longstaff, Charles B. C. Storey, Esq., W. H. Sutcliffe, Esq., and Dr. A. Smith Woodward).*

Mammalia.—Two Mammalian teeth, one being the type-specimen of *Dipriodon valdensis*, A. S. Woodward, collected by the donors from the Wealden near Hastings. *Presented by the Rev. P. Teilhard, S.J., and the Rev. F. Pelletier, S.J.*

One portion of mandibular ramus and two carnassial teeth of *Trochotherium cyamoides* from the Upper Miocene, Steinhe m Würtemberg. *Presented by Prof. Dr. Eberhard Fraas.*

Humerus of *Mastodon* and portion of tail-sheath of a Glyptodont, from Ceara, Brazil. *Presented by J. A. Lorimer, Esq.*

Mandibular ramus and humerus of *Mastodon* from Peru. *Presented by Señor Don Ramulo Cuneo-Vidal, through J. Gregory Jones, Esq.*

Remains of *Mus catreus* from cavern deposits, Sphinari, W. coast of Crete; namely, a portion of the mandible (the type-specimen described in Geol. Mag., 1912, p. 4, text-figs. 1, 1*a*), and a portion of pelvis. *Presented by Miss D. M. A. Bate.*

Molar of *Cervus elaphus* from Symonds Yat, Herefordshire. *Presented by the Hon. N. Charles Rothschild.*

Molar tooth and portion of humerus of *Hippopotamus* from the site of Hathor temple near W. bank of river Faras, province of Halfa, Soudan. *Presented by F. Ll. Griffith, Esq.*

Third upper molar of *Rhinoceros antiquitatis*, showing malformation, from Brickearth, Crayford, Kent. *Presented by R. Brice Higgins, Esq.*

Milk-molar of *Elephas* from Pleistocene gravels, Waternewton, Hunts. *Presented by J. W. Bodger, Esq.*

Reptilia.—Pelvis of *Mystriosaurus bollensis* from the Upper Lias of Holzmaden, Würtemberg. *Presented by Herr Bernhard Hauff.*

Tooth of *Ichthyosaurus platyodon* from the Lower Lias of Warwickshire. *Presented by Edward Mapplebeck, Esq.*

Tridactyl Dinosaurian footprint from the Middle Purbeck of Durlstone Bay, Swanage, collected by the donor. *Presented by Stanley C. Bailey, Esq., A.M.I.C.E.*

Sixty Reptilian remains collected by the donors from the Wealden and Purbeck formation near Hastings. *Presented by the Rev. P. Teilhard, S.J., and the Rev. F. Pelletier, S.J.*

Two Crocodilian vertebræ from River Xapury, Upper Acre district, N. Brazil. *Presented by E. Stanley Sutton, Esq.*

Batrachia.—Skull of *Bothriceps huxleyi* from the Karoo formation of the Drakensberg, Orange River Colony. *Presented by W. L. Distant, Esq.*

Pisces.—One spine of *Onchus murchisoni* and pieces of Ludlow Bone-Bed from the neighbourhood of Dudley, illustrating a paper by Messrs. King and Lewis, Geol. Mag., 1912, pp. 437-443, 484-491. *Presented by W. Wickham King, Esq.*

Eight pieces of Upper Old Red Sandstone, from a depth of between 1,100 and 1,200 feet in a boring at Southall, Middlesex, containing remains of *Holoptychius* and *Bothriolepis*. *Presented by E. Proctor, Esq.*

Tooth of *Rhynchodus* from the Middle Devonian (Encrinite Beds), Gerolstein, Eifel. *Presented by Upfield Green, Esq.*

Twenty-five fishes from the Calciferous Sandstone Series of East Fife. *Presented by James Wright, Esq., jun.*

A specimen of *Pholidophorus*, in counterpart, from the Lower Rhaetic, Glen Parva, Leicester. *Presented by A. J. S. Cannon, Esq.*

Seventy fish-remains, chiefly teeth, collected by the donors from the Wealden and Purbeck formations near Hastings. *Presented by the Rev. P. Teilhard, S.J., and the Rev. F. Pelletier, S.J.*

Tooth of *Ptychodus decurrens* from the Chalk Marl, Margett's Pit, Burham. *Presented by G. E. Dibley, Esq.*

Two fish-remains (*Portheus* and *Pachyrhizodus*) from the Lower Chalk near Maidstone. *Presented by W. E. Balston, Esq.*

One specimen of *Hoplopteryx lewesiensis* from the Sussex Chalk. *Presented by Alfred Bell, Esq.*

Mollusca.—One Tentaculite, six Lamellibranchs and one Cephalopod collected by the donor from the Upper Ordovician of the Dufton area, Westmoreland. *Presented by Dr. F. A. Bather, F.R.S.*

Three Lamellibranchs from the Palæozoic rocks of Ontario, Canada. *Presented by Col. C. C. Grant.*

Three Mollusca from the Upper Silurian near Dudley, illustrating a paper by Messrs. King and Lewis, Geol. Mag., 1912, pp. 437–443, 484–491. *Presented by W. Wickham King, Esq.*

Four Cephalopoda and 53 other Mollusca from the Calciferous Sandstone Series of East Fife. *Presented by James Wright, Esq., jun.*

Seventeen Lamellibranchs from the Coal Measures of Bristol and Radstock. *Presented by Herbert Bolton, Esq.*

Nine Mollusca from the Permian (Zechstein) of the Samara district of the Volga, Russia. *Presented by I. A. Stigand, Esq.*

One *Gryphæa* from the Middle Lias, W. of Bridport. *Presented by W. D. Lang, Esq.*

Sixteen Gastropoda and 14 Lamellibranchs collected by the donors from the Wealden and Purbeck formations near Hastings. *Presented by the Rev. P. Teilhard, S.J., and the Rev. T. Pelletier, S.J.*

The natural cast of a left valve of *Cyprina sowerbyi*, from the Folkestone Beds, Oldbury Hill, Ightham, Kent. *Presented by Benjamin Harrison, Esq.*

Three specimens of *Inoceramus* from the Gault and three *Gervillia* from the Greensand of Black Ven, Charmouth. *Presented by W. D. Lang, Esq.*

One Belemnite from the Chalk Marl of Sussex. *Presented by H. J. Osborne White, Esq.*

A large specimen of *Inoceramus involutus* from the Chalk of Yorkshire. *Presented by E. B. Lotherington, Esq.*

One Cretaceous Gastropod from Jamaica and one Cretaceous Lamellibranch from the Isle of Wight. *Presented by Lieut.-Col. L. Worthington Wilmer.*

Four valves of *Ostrea longirostris* from the Oligocene, Gironde, France. *Presented by Prof. Jules Welsch.*

Two specimens of *Pecten* from the Miocene of Tliouanet, Oran, Algeria. *Presented by Arthur C. Veatch, Esq.*

Forty Lamellibranchs from the Miocene of Burma. *Presented by B. F. N. Macrorie, Esq., through L. V. Dalton, Esq., B.Sc.*

Eighty-two non-marine Tertiary shells from Germany. *Presented by Dr. K. Fischer.*

Two Mollusca from the Tertiary Limestone of Eilander River, 200 miles inland, Central Dutch New Guinea. *Presented by A. S. Meet, Esq.*

One hundred and eleven Mollusca described and figured by the donor and R. B. Newton in Quart. Journ. Geol. Soc., vol. lxvii., 1911, pp. 572–680, pls. 42–49, from Tertiary formations in Cyreniaca, N. Africa. *Presented by Prof. J. W. Gregory, F.R.S.*

Seventy-eight Tertiary Mollusca from Colon (Panama), Trinidad and Jamaica. *Presented by Lieut.-Col. L. Worthington Wilmer.*

One Lamellibranch (*Mactra chrydœa*) and forty-two other Tertiary Mollusca from New Zealand. *Presented by the Geological Survey of New Zealand through J. Allan Thomson, Esq.*

Ten Gastropods and 12 Lamellibranchs from a raised beach near the Red Sea. *Presented by A. J. Jukes-Browne Esq., F.R.S.*

Arthropoda.—Twenty-four Trilobites from the Cambrian of Comley, Shropshire. *Presented by E. S. Cobbold, Esq.*

Seventy-nine Trilobites collected by the donor in the Upper Ordovician of the Dufton area, Westmoreland. *Presented by Dr. F. A. Bather, F.R.S.*

One Eurypterid from the Upper Silurian in the neighbourhood of Dudley, noticed by Messrs. Lewis and King, Geol. Mag., 1912, pp. 437-443, 484–491. *Presented by W. Wickham King, Esq.*

One Trilobite from the Silurian of Ontario, Canada. *Presented by Col. C. C. Grant.*

Twenty-five Arthropoda from the Calciferous Sandstone of East Fife. *Presented by James Wright, Esq., jun.*

Six artificial impressions of Arthropods from the Coal Measures, referred to in the Geol. Mag., Nov. 1911. *Presented by L. Moysey, Esq.*

Forty-three Phyllopoda (*Leaia*) from the Coal Measures of Bristol and Radstock. *Presented by Herbert Bolton, Esq.*

Twenty-six Arthropoda, including a new insect, collected by the donors from the Wealden and Purbeck formations near Hastings. *Presented by the Rev. P. Teilhard, S.J., and the Rev. F. Pelletier, S.J.*

Twenty-one Ostracods from the Gault of Black Ven, Charmouth. *Presented by W. D. Lang, Esq.*

One Chela of Crab from the Chalk Marl, Cambridge. *Presented by F. Möckler, Esq.*

One fossil Crab (*Harpactocarcinus punctulatus*) from the Eocene, Vicentin, Italy. *Presented by Walter Child, Esq.*

Two Balani mentioned in a paper by the donor, Quart. Journ. Geol. Soc., vol. lxvii. (1911), pp. 572-680, pls. 42-49, from Tertiary formations in Cyreniaca, N. Africa. *Presented by Prof. J. W. Gregory, F.R.S.*

Echinoderma.—Thirty-five Echinoderma collected by the donor in the Upper Ordovician of the Dufton area, Westmoreland. *Presented by Dr. F. A. Bather, F.R.S.*

Five Crinoids (*Hybocystis eldonensis*) from the Trenton Limestone of Kirkfield, Ont., and one Ophiuroid (*Onychaster flexilis*) from the Keokuk Group of Crawfordsville, Ind. *Presented by Dr. Frank Springer.*

One Ophiuroid (*Onychaster flexilis*) from the Keokuk Group of Crawfordsville, Ind. *Presented by Frederick Braun, Esq.*

Three Crinoids from the Lower Carboniferous Limestone Series, St. Morans, Fife, and three Echinoderms from the Calciferous Sandstone Series of East Fife. *Presented by James Wright, Esq., jun.*

Twelve Asteroid ossicles and 45 Crinoid ossicles from the Lias of May, Calvados, Normandy. *Presented by D. M. S. Watson, Esq.*

Twenty-two specimens of *Eugeniacrinites* from the Tithonian of Moravia. *Presented by Dr. Maurie Remeš.*

Forty-six Echinoderma mentioned in a paper by the donor, Quart. Journ. Geol. Soc., vol. lxvii. (1911), pp. 572-680, from Tertiary formations in Cyreniaca, N. Africa. *Presented by Prof. J. W. Gregory, F.R.S.*

One Echinoid from a Raised Beach near the Red Sea. *Presented by A. J. Jukes-Browne, Esq., F.R.S.*

Annelida.—Five Annelida collected by the donor from the Upper Ordovician of the Dufton area, Westmoreland. *Presented by Dr. F. A. Bather, F.R.S.*

One *Serpulites* from the Upper Silurian of the neighbourhood of Dudley, noticed by Messrs. King and Lewis, Geol. Mag., 1912, pp. 437-443, 484-491. *Presented by W. Wickham King, Esq.*

Four Annelida from the Calciferous Sandstone Series of East Fife. *Presented by James Wright, Esq., jun.*

Serpula cincta from the Chalk of N.E. Surrey. *Presented by Mr. T. H. Withers.*

Brachiopoda.—Sixteen Brachiopods from the Cambrian of Comley, Shropshire. *Presented by E. S. Cobbold, Esq.*

One hundred and forty Brachiopoda, collected by the donor from the Upper Ordovician of the Dufton area, Westmoreland. *Presented by Dr. F. A. Bather, F.R.S.*

Two hundred and eleven Brachiopoda from the Ordovician rocks of the United States. *Presented by Dr. August F. Foerste.*

Seven Brachiopoda from the Upper Silurian in the neighbourhood of Dudley, illustrating a paper by Messrs. King and Lewis, Geol. Mag., 1912, pp. 437-443, 484-491. *Presented by W. Wickham King, Esq.*

Two Brachiopods from the Palæozoic of Ontario, Canada. *Presented by Col. C. C. Grant.*

A specimen of *Orthis* from the Lower Devonian (Gedinnian) of Ladock Quarry, Cornwall, described by Ivor Thomas, Geol. Mag., 1912, p. 83. *Presented by Upfield Green, Esq.*

One *Spirifera* from the Devonian, S.E. of Lake Titicaca, above the valley of La Paz, Bolivia, about 13,000 ft. above sea-level. *Presented by Lieut-Col. P. H. Fawcett.*

Seven Brachiopoda from the Calciferous Sandstone Series of East Fife. *Presented by James Wright, Esq., jun.*

Twenty Brachiopoda from the Coal Measures of Bristol and Radstock. *Presented by Herbert Bolton, Esq.*

Sixty-four Brachiopoda from the Permian (Zechstein) of the Samara district of the Volga, Russia. *Presented by I. A. Stigand, Esq.*

Polyzoa.—Polyzoa collected by the donor in the Upper Ordovician of the Dufton area, Westmoreland. *Presented by Dr. F. A. Bather, F.R.S.*

A piece of the Bryozoa-Bed from the Lower Carboniferous of Portishead, Bristol. *Presented by Spencer G. Perceval, Esq.*

Polyzoan Limestone from the Carboniferous Limestone, S. of Port St. Mary Harbour, I. of Man. *Presented by H. L. Hawkins, Esq.*

Eleven Polyzoa from the Calciferous Sandstone Series of East Fife. *Presented by James Wright, Esq., jun.*

Three Polyzoa from the Lias of May, Calvados, Normandy. *Presented by D. M. S. Watson, Esq.*

Fifty-six Polyzoa from the Greensand of Black Ven, Charmouth, and one Polyzoan from the Chalk of Sompting, Sussex. *Presented by W. D. Lang, Esq.*

Sixteen Polyzoa from the Chalk of N.E. Surrey. *Presented by Mr. T. H. Withers.*

Two Polyzoa from the Upper Chalk of Sussex. *Presented by H. J. Osborne White, Esq.*

Cœlentera.—Corals and Hydrozoa collected by the donor in the Upper Ordovician of the Dufton area, Westmoreland. *Presented by Dr. F. A. Bather, F.R.S.*

One Coral and four Hydrozoa from the Palæozoic rocks of Ontario, Canada. *Presented by Col. C. C. Grant.*

Piece of Silurian Coral Rock from the Devonian basement conglomerate, Porthluney, Cornwall; one Coral and five specimens of the problematic *Lodanella* from the Lower Devonian Singhofen beds of Berg, near Miehlen, Nassau *Presented by Upfield Green, Esq.*

Two pieces of Devonian Coral Limestone from Torquay *Presented by A. J. Jukes-Browne, Esq., F.R.S.*

The type specimen of *Zaphrentis oystermouthensis*, Vaughan, from the Carboniferous Limestone of Gower. *Presented by J. W. Tutcher, Esq.*

Eight Corals from the Lower Carboniferous (Lower Calp Shales) of Bundoran, Co. Donegal. *Presented by Mrs. A. S. Woodward.*

A hundred and twenty-five Hydrozoa from the Toarcian of May, Calvados, Normandy. *Presented by D. M. S. Watson, Esq.*

Three Corals (*Anabacia*) from the Oxford Clay, Eye. *Presented by G. P. Crowden, Esq.*

One Coral from the Upper Chalk of Sussex. *Presented by H. J. Osborne White, Esq.*

Twenty-seven Corals from the Miocene of Burma. *Presented by B. F. N. Macrorie, Esq., per L. V. Dalton, Esq., B.Sc.*

Four Corals from the Tertiary Limestone of Eilander River (200 miles inland), Central Dutch New Guinea. *Presented by A. S. Meek, Esq.*

Porifera.—One sponge from the Cenomanian of Compton Bay, I. of Wight. *Presented by C. E. Brooks, Esq.*

One sponge from the Chalk of Aston Rowant, Oxon. *Presented by Mr. T. H. Withers.*

Protozoa.—Two Foraminifera from the Calciferous Sandstone eries of East Fife. *Presented by James Wright, Esq., jun.*

Washings of Foraminifera, &c., from the Bracklesham Beds (Alveolina Limestone) of Selsey Bill. *Presented by Edward Heron Allen, Esq.*

Seven Foraminifera and Organic Limestones described by the donor in Quart. Journ. Geol. Soc., vol. lxvii., 1911, pp. 572–680, from Tertiary formations in Cyreniaca, N. Africa. *Presented by Prof. J. W. Gregory, F.R.S.*

Plantæ.—Parka decipiens from the Lower Old Red Sandstone of Legsmill Quarry, near Arbroath. *Presented by F. Ross Thomson, Esq.*

One artificial impression of a neuropteroid pinnule from a Coal Measure nodule. *Presented by L. Moysey, Esq.*

Eleven plants from the Calciferous Sandstone of East Fife. *Presented by James Wright, Esq., jun.*

Type-specimen of a fossil plant (*Microrhagion Liversidgei*, Ettingshausen, Mem. Geol. Surv., N.S. Wales. Palæont, No. 2, 1888, p. 19, pl. i. figs. 7–11), from the Upper Carboniferous of Wallesawang, New South Wales. *Presented by Prof. A. Liversidge, F.R.S.*

Seven fossil plants from the Rhaetic of Scania, Sweden. *Presented by Prof. A. G. Nathorst.*

Seventy-four plant-remains collected by the donors from the Wealden and Purbeck formations in the neighbourhood of Hastings. *Presented by the Rev. P. Teilhard, S.J and the Rev. F. Pelletier, S.J.*

A tube of nucules of *Chara* from the White Band, Hamstead Beds, Hamstead, I. of Wight. *Presented by G. W. Colenutt, Esq.*

Fossil Wood, probably of Tertiary age, from beneath basalt on the Invermein Estate, Scone, New South Wales. *Presented by the Government Geologist, Sydney, New South Wales.*

Rock Specimens.—Three rocks from the Calciferous Sandstone Series of East Fife. *Presented by James Wright, Esq., jun.*

Twenty-seven wind-worn pebbles, collected by the donor in the drift overlying the Bunter Sandstone, near Ramsdale House, Nottinghamshire. *Presented by Prof. H. H. Swinnerton, D.Sc.*

B.—*By Purchase.*

Mammalia.—Skulls of *Elotherium* and *Hyænodon* from the Upper Harrison Beds, Sage Creek, Converse Co., Wyoming.

Skull and associated vertebræ of *Eosiren lybica* from the Eocene of the Fayum, Egypt.

Skull of *Mesatirhinus petersoni* from the Eocene of Wyoming.

Skull of *Dolichorhinus intermedius* from the Upper Eocene, Uinta Basin, Utah.

Teeth of Arctic Fox from Durdham Down.

Plaster cast of Human Skull from Langwith Cave, Derbyshire (Mullins Coll.).

Aves.—Sternum, coracoid, scapula and humerus of *Ichthyornis* from the Cretaceous of Kansas.

Reptilia.—Skull of *Scylacosaurus sclateri*; three skulls of *Scymnosuchus whaitsi*; one imperfect skeleton of *Endothiodon*; one Endothiodont skull; one Endothiodont dentary; two imperfect small Dicynodont skeletons; two Dicynodont skulls; one Dicynodont mandible; one *Eunotosauros*; one Dinocephalian tooth; and one snout of *Oudenodon*; all from the Karoo formation, South Africa (Whaits Coll.).

Two plaster castsof *Koilosciosaurus coburgensis* from the Trias of Coburg.

One *Mystriosaurus bollensis ;* and one skull, mandible and fore-paddle of *Ichthyosaurus longirostris,* from the Upper Lias of Würtemberg.

A plaster cast of a skeleton of *Dorygnathus* from the Upper Lias of Würtemberg.

One *Pterodactylus scolopaciceps* from the Lithographic Stone of Eichstädt, Bavaria.

One *Acrosaurus* from the Lithographic Stone of Solenhofen, Bavaria.

Pieces of egg-shell of *Hypselosaurus* from the Upper Cretaceous of Bouches-du-Rhone, France.

Skull, mandible, vertebræ and limb-bones of *Toxochelys ;* and humerus, ulna and radius of *Clidastes,* from the Upper Cretaceous of Kansas.

Cast of skull and mandible of *Tyrannosaurus* from the Upper Cretaceous of Montana.

Batrachia.—One Labyrinthodont jaw from the Lower Carboniferous of Midlothian.

Cast of restored skeleton of *Eryops* from Permian of Texas (Amer. Mus. Nat. Hist.).

Pisces.—One fish-bone from the Old Red Sandstone, Honey Pen Hill, Herefordshire.

Two fishes from the Lower Old Red Sandstone of Forfarshire.

Two slabs of fishes from the Rhaetic of the Tyrol.

Forty otoliths from the Bradford Clay.

One *Liodesmus,* one *Eugnathus,* one Cœlacanth, and one cast of *Macrorhipis* from Lithographic Stone of Eichstädt, Bavaria.

Lepidotus mantelli from the Wealden, St. Leonards.

Thirteen teeth of *Ptychodus* from the European Cretaceous formation.

One Pycnodont jaw from the Cretaceous of Syria.

One *Enchodus* from the Cretaceous, Westphalia.

One tooth of *Notidanus* from the Cretaceous, Westphalia.

Skeleton of *Portheus molossus,* and part of the skull of *Enchodus,* from the Upper Cretaceous of Kansas.

Associated teeth of *Ptychodus latissimus* and of *P. decurrens ;* one skull of *Osmeroides latifrons ;* one Berycoid; *Ctenothrissa ;* and *Halec* from the English Chalk.

Naseus and *Rhombus minimus* from the Upper Eocene of Monte Bolca.

Two Diodont jaws from the Oligocene, Fayum.

Dentition of *Odontaspis denticulata* and of *Notidanus primigenius* from the Lower Miocene, Mainz Basin.

Miscellaneous Vertebrata.—One slab of vertebrate remains from the Rhaetic, Blue Anchor.

Mollusca.—Twenty-seven Mollusca from the Ordovician of Bohemia.

One *Bellerophon* from the Middle Devonian of the Rhone.

One *Euomphalus colei* from the Carboniferous Limestone of Llandulas.

Actinoceras giganteus from the Carboniferous Limestone, Hillbeck Fell, Westmoreland.

Three Ammonites and two Nautili from the Lias of Charmouth, Dorset.

Forty-six Cephalopoda from the Lias of Asia Minor.

Five hundred Gastropods, &c., from the Bradford Clay.

Twenty-two Mollusca from the Stonesfield Slate.

One English Corallian Gastropod.

Thirty French Jurassic Mollusca.

One Ammonite, *Pachydiscus*, from the Chalk of the Warren Cliffs, Folkestone, and two other Ammonites from the English Chalk.

Fifty-one Mollusca from the Chalk Rock of Aston Rowant, Oxon.

Seven Mollusca from the Chalk of Yorkshire.

Two species of Cretaceous non-marine Gastropoda from South France.

A hundred and fifty-five marine Cretaceous Mollusca from France.

Five hundred and eighty-seven Cephalopoda, five Gastropoda, and twenty-nine Lamellibranchia from the Cretaceous of Hanover (Schrammen Coll.).

One *Teredo* from the Cretaceous of Maestricht.

Twenty-one Lamellibranchs and six Cephalopods from the Chalk of Rügen.

Seven Gastropods from the Cretaceous of Asia Minor.

Fourteen Ammonites, three Gastropoda and six Lamellibranchia from the Cretaceous between Abeih and Beyrout, Syria.

Twenty-six Eocene Mollusca from Monte Postale.

Three Miocene Lamellibranchs from Mainz.

Six hundred species of Miocene Shells from France.

One *Pecten* from the Miocene of Asia Minor.

Sixty-five species of Post-Pliocene non-marine Gastropoda from Var, France (Caziot Coll.).

Nine species of Post-Pliocene marine shells from Corsica.

A hundred and ten Tertiary Mollusca from France.

Arthropoda.—Nineteen Trilobites from the Ordovician, Bohemia.

Fifty-seven Trilobites from France.

One Eurypterid from the Lower Old Red Sandstone of Forfarshire.

Arthropods from the Coal Measures.

One tube of Ostracoda from the Upper Lias of Würtemberg.

Two Crustacea from the Stonesfield Slate.

Nine specimens of *Eryma*, from the Great Oolite of Northampton.

One Arthropod from the Chalk Rock of Aston Rowant, Oxon.

A hundred and sixty plates of a Cirripede (*Brachylepas*) and six other Crustacea from the Cretaceous of Hanover.

Thirteen tubes of ostracod shells from the Cretaceous of Saxony and Westphalia.

One *Callianassa* from Maestricht.

A series of *Pollicipes* from the Cretaceous of Westphalia.

Two Crabs from the Eocene of Istria.

Six tubes of ostracods from the Tertiary of Europe.

Echinoderma.—Four *Ceratocystis perneri* from the Cambrian of Bohemia.

Two *Dendrocystis*, two *Compsocrinus*, four *Mitrocystis*, and one other Cystid, from the Ordovician of Bohemia.

Fifteen hundred Echinoderms, &c., from the Bradford Clay.

One Echinoderm from the Stonesfield Slate.

One Echinoderm from the Lithographic Stone, Eichstädt, Bavaria.

One Echinoderm from the Chalk Rock of Aston Rowant, Oxon.

One *Catopygus* from Maestricht.

Twelve Echinoderms from the Chalk of Rügen.

Twenty-three Echinoderms from the Cretaceous of Hanover.

One Echinoid from the Cretaceous between Abeih and Beyrout, Syria.

Sixty-three Mesozoic and Tertiary Echinoderms from France.

Annelida.—Thirteen Mesozoic Annelida from France.

Five Annelida from the Cretaceous of Hanover.

Brachiopoda.—Six Brachiopods from the Ordovician of Bohemia.

Six Cretaceous Brachiopoda from France.

Thirty Brachiopoda from the Cretaceous of Hanover.

Polyzoa.—Five hundred Polyzoa from the Carboniferous, Lanarkshire.

Four hundred and fifty-six Polyzoa from the Chalk Marl of Cambridge.

Three thousand four hundred and sixty-five Polyzoa, &c., from the English Cretaceous.

Seven Polyzoa from the Cretaceous of Rügen.

One Polyzoan from the Cretaceous of Maastricht.

One Polyzoan from the Cretaceous of Faxe.

Thirty-five microphotographs of French Cretaceous Polyzoa.

Cretaceous and Tertiary Polyzoa from France.

Coelentera.—Two Graptolites from the Ordovician of Bohemia.

Four Graptolites from France.

Twelve Silurian Graptolites from Yorkshire.

Two Medusæ from the Lithographic Stone of Eichstädt.

Seven Corals from the Gault of Kent.

Thirty Corals from the Cretaceous of Gosau.

Cretaceous Corals from France.

Four Corals from the Cretaceous of Hanover.

One Coral from the Cretaceous of Faxe.

Four Cretaceous Corals from Asia Minor.

One Coral from the Eocene of Istria.

Tertiary Corals from France.

Porifera.—Twenty-nine Sponges from the Chalk of Rügen.

Two Sponges from the Chalk Rock of Aston Rowant, Oxon.

Protozoa.—Fifty-four Foraminifera from the Bradford Clay.

Thirty-one French Cretaceous Foraminifera.

Dr. Francesco Coppi's collection of 686 species of Foraminifera from the Miocene and Pliocene of Northern Italy.

Plantæ.—Two *Zeilleria delicatula;* one slide of *Sigillaria s utellaria; Vetacapsula;* and 44 microscope slides of plants, from the English Coal-Measures.

Two *Tæniopteris* from the Carboniferous of Asia Minor.

Thuites from the English Bathonian.

Nine Plants from the Stonesfield Slate.

Ten fossil figs from the Laramie Beds, Wyoming, U.S.A.

Twenty-three European Cretaceous Plants.

Rock specimens.—Five rock specimens from Bristol.

The total accessions during 1912 are as follows :—

A.—Vertebrata :		
By Donation	295	
„ Purchase	134	
„ Exchange	1	
		430
B.—Invertebrata :		
By Donation	2,416	
„ Purchase	9,723	
„ Exchange	182	
		12,321
C.—Plantæ :		
By Donation	23	
„ Purchase	92	
„ Exchange	1	
		116
D.—Rock Specimens :		
By Donation	27	
„ Purchase	5	
		32
Total		12,899

VI.—*Students and Visitors.*

The number of visits paid to the Department by students and other persons for the purpose of consultation or study during 1912 was 5,974.

VII.—*Demonstrations.*

Nine parties were received in the Galleries of the Department of Geology, and demonstrations were given as follows :—

January 11th.—Peterborough Natural History Society (12 members); Dr. Woodward.

February 3rd.—Teachers of the London County Council Schools (13); Dr. Woodward.

February 17th.—Teachers of the London County Council Schools (11); Dr. Woodward.

March 2nd.—Teachers of the London County Council Schools (12); Dr. Woodward.

March 9th.—Wimbledon Natural History Society (12 members); Dr. Bather.

March 23rd.—Social Institutes' Union (30 members); Dr. Woodward.

March 23rd.—Ealing Scientific Society (15 members); Dr. Andrews.

March 30th.—Teachers of the London County Council Schools (11); Dr. Woodward.

May 16th.—Sir Muir Mackenzie and a party of 12 Wykhamists; Dr. Bather.

Arthur Smith Woodward.

Department of Mineralogy.

I.—*Arrangement.*

The European rock-specimens belonging to the Geological Society's Collection have been topographically arranged in nine new cabinets, each containing 20 drawers, which have been placed in the basement corridor.

Specimens of calamine, opal, and augite have been arranged in 30 of the new drawers recently fitted beneath the table-cases in the Gallery.

A series of fine, unaltered specimens of laumonite, exhibited in the case-tops, have been placed in sealed glass troughs, to preserve them in a moist atmosphere.

The crystal-sections have been re-arranged and numbered, and the recently-acquired large series of sections of rock-forming minerals have been incorporated.

In connection with the re-arrangement of the European rock-collections in the Gallery, the large series of Hungarian rocks have been re-arranged.

A large fulgurite from Maldonado, Uruguay, has been fitted together, mounted in a special case, and exhibited in the Pavilion.

Certain of the Meteoric Irons which showed considerable rusting have been provided with a protective coating of shellac by means of french-polishing.

Eighty-nine boxes or parcels of mineral specimens have been received, unpacked, and examined; 104 boxes have been packed and despatched.

II.—*Registration, Indexing, and Cataloguing.*

All the specimens of minerals, rocks, and meteorites acquired during the year have been registered, numbered, labelled, and incorporated with the Collection.

The preparation of the slip-catalogues of the mineral-specimens in the Collection, species by species, and of permanent labels giving all available information for each specimen, has been in progress for the Divisions of the Haloids, Oxides, and Carbonates. In the course of this work slips have been prepared for the specimens of aragonite, alstonite, and hæmatite; and permanent labels have been written, checked, and placed in the Collection with the specimens of all the species of the Haloids up to and including fluor. At the same time the specimens of fluor in the drawers have been re-arranged and extended into other cubes, and the history of various specimens not entered in the General Register has been investigated.

In connection with the acquisition of specimens selected from the Walker Collection (pp. 194–5), many of which had been

originally purchased from Henry Heuland, an index of the names of purchasers at the Heuland sales of 1829–1846 has been prepared, and marginal notes in a copy of the sale catalogues which belonged to Heuland have been incorporated in the Museum copy.

A slip-catalogue of the crystal-sections has been prepared, and the catalogue of the gem-stones has been brought up to date.

Six hundred and eighty-three labels for the Collection of Meteorites have been prepared for press, and the printed labels have been placed with the specimens exhibited in the four cases in the Pavilion.

A topographical index of the meteorites in the Collection has been prepared.

The preparation of a slip-catalogue of the topographical rock collections has been continued.

Two hundred thin-slices of rocks have been microscopically examined and labelled.

Two thousand and eighty-five thin-slices of rocks have been cleaned, and the registration-numbers have been written on them with a diamond.

The preparation of a copy of the register of the specimens in the Collection has been continued.

III.—*Preparation.*

Two hundred and ninety-two thin-slices of rocks and meteorites have been prepared. In connection with this work new and improved apparatus for slitting rocks, and for grinding and polishing rock-sections have been made from designs prepared in the Department, and have been installed in the Lapidary's room.

IV.—*Investigation.*

A crystallographic and optical investigation has been made of a pyroxene from the Azores, and that of zeolites and associated minerals from the basalts near Belfast has been continued.

A crystallographic and chemical investigation has been made of a supposed new sulpharsenite of lead from Binn, Switzerland.

Specimens of the following minerals have also been examined : anatase, atacamite, beryl, calcite, corundum, dufrenoysite, garnet, halloysite, mica, platinum, quartz, seligmannite, and vanadinite.

A collection of copper-ores, including specimens of bayldonite and the new mineral, tsumebite, from Tsumeb, German South-West Africa, has been examined.

Collections of rocks from the Azores, British East Africa, the Antarctic, Mongolia, Madagascar, Costa Rica, and Iona have been examined.

A set of pannings from Southern Nigeria has been examined, and the constituent minerals have been determined.

A chemical and optical investigation has been made of the mineral constituents of the meteoric stones which fell at El Nakhla el Baharia, Egypt; drawings have been made, and a description of the meteorite has been prepared for publication.

In the chemical laboratory, quantitative analyses have been made of the olivine and the soluble and insoluble constituents of the El Nakhla meteorite; a sulpharsenite of lead from Binn, Switzerland; a phacolite from Co. Antrim; a pyroxene and a trachyte from the Azores; and a copper-nickel alloy: many doubtful minerals have been qualitatively analysed.

V.—*Departmental Library.*

Arrangement.—Letters relating to the business of the Department have been arranged.

Cataloguing and Press-marking.—677 volumes and 444 title-slips have been press-marked. All the accessions, including 841 plates, have been catalogued and stamped.

Proofs of the Library Catalogue have been read and checked against the slip-catalogue in the Department.

Shelf-lists of all the books have been prepared.

Accessions.—48 volumes of separate works, 33 periodicals (in 414 volumes and parts), 45 pamphlets, 15 parts of works, and 33 mining reports have been added to the Library. These were acquired as follows:—

By presentation.—9 volumes of separate works, 10 periodicals (in 124 volumes and parts), 34 pamphlets, 2 parts of works, and 30 mining reports.

By purchase. — 34 volumes of separate works, 21 periodicals (in 288 volumes and parts), 9 pamphlets and 11 parts of works.

By transfer.—5 volumes of separate works, 2 periodicals (in 2 parts), 2 pamphlets, 2 parts of works and 3 mining reports.

In addition to the above, 2 sets of sheets (No. 208 to 229) of the Catalogue of the Museum Libraries have been received from the General Library.

Binding.—116 volumes have been bound.

Assistance has been given in the General Library during 11 days and 5 half-days.

VI.—*Publications.*

The following papers relating to specimens in the collection have been published during the year:—In the "Mineralogical Magazine and Journal of the Mineralogical Society," 1912, vol. xvi:—

"The Meteoric Stones of El Nakhla el Baharia (Egypt)": by G. T. Prior (p. 274).

"Hatchite, a new (anorthic) mineral from the Binnenthal": by R. H. Solly and G. F. H. Smith (p. 287).

"Note on a large crystal of Anatase from the Binnenthal": by G. F. H. Smith (p. 290).

"On Sericite from North Wales and on Penninite and Labradorite from Ireland": by A. Hutchinson and W. Campbell Smith (p. 264).

In the "Annals of the Natal Museum," 1912, vol. ii :—

"A spherulitic Dolerite from Natal": by W. Campbell Smith (p. 381).

VII.—*Acquisitions.*

1,403 specimens have been acquired, namely :—

620 minerals, 667 rocks, and 116 meteorites.

Particularly noteworthy amongst the acquisitions during the year are the superb specimens of minerals from the Walker Collection, some of the finest of which were presented by Mr. F. N. A. Fleischmann. The Walker Collection was brought together for the most part by Mr. Isaac Walker (1794–1853), of Southgate, Middlesex, who purchased the majority of the finest specimens from Henry Heuland at his public sales of minerals held between 1826 and 1847. The specimens now acquired by the Museum therefore include some of the most remarkable examples of minerals discovered or offered for sale at that time.

Exchanges of specimens have been made with the Muséum National d'Histoire Naturelle, Paris (through Prof. A. Lacroix); and the Serviço Geologico e Mineralogico do Brazil (through Prof. Orville A. Derby).

The specimens acquired by presentation (arranged alphabetically according to donors), and by exchange, and the more important of those obtained by purchase are as follows :—

Minerals.

By Presentation :

Garnet (pyrope), two faceted stones and rough fragments, from Ceylon : by E. A. Annett, Esq.

Albite crystals with dolomite, &c., from Ouro Preto, Brazil : by Arthur J. Bensusan, Esq.

Cassiterite crystals from Northern Nigeria : by S. G. Brounger, Esq.

Epidote and dufrenoysite from Switzerland : by Sigismund Bruzaud, Esq.

Calamine, bluish-green with satiny surface, from Kelly mine, New Mexico : by Albert C. Burrage, Esq.

Cellular quartz from Ranen, Norway : by J. Morrow Campbell, Esq.

Wiikite from Finland, and crystals of platinum formed by sublimation in an electric furnace: by Sir William Crookes, O.M., F.R.S.

Zinc-blende in ironstone nodule from Fairlight Cliffs, Sussex: by Charles Dawson, Esq.

Artificial spinel and fibrous silica from furnace slags: by Allan B. Dick, Esq.

Quartz, two isolated twinned crystals (a rare form with the primary rhombohedron as twin-plane), a number of untwinned crystals of quartz, and crystals of andesine, from the Esterel Mts., France: by Dr. Julien Drugman.

Esmeraldaite from Esmeralda Co., Nevada: by Prof. A. S. Eakle.

Garnet in granite from Dartmoor: by H. Montagu Evans, Esq.

Magnetite from the diamond washings of Diamantina, Brazil: by W. Feldenheimer, Esq.

A series of 46 choice specimens specially selected from the Walker Collection (*see* p. 194), including:—seven finely crystallized chessylites from Chessy, France; crystallized malachite, and malachite pseudomorphous after chessylite and after cuprite, from Chessy, France; two groups of distinctly formed crystals of native silver from Kongsberg, Norway; a group of large bright crystals of smaltite from Riechelsdorf, Hesse; two fine groups of pyrargyrite crystals from Andreasberg, Harz; pale green fluor-spar with topaz from Adun-Chalon, Siberia; hyalite from Waltsch, Bohemia; topaz, a clear pale brown crystal, from Urulunga Mt., Siberia, and a group of lustrous colourless crystals, many of them doubly terminated, from Adun-Chalon, Siberia; garnet (hessonite) with diopside from Ala, Piedmont; epidote, an isolated doubly-terminated crystal, from Arendal, Norway; two large twinned crystals of adularia from St. Gotthard; a clear yellow crystal of beryl from Adun-Chalon, Siberia; a pale-green crystal of euclase from Minas Geraes; tourmaline, a large black crystal with apatite, from Bovey Tracey, Devonshire; pale yellow crystals of scheelite of low pyramidal habit from Breitenbrunn, Saxony (the specimen figured and described by A. Lévy in 1826); crystallized scorodite from Brazil and Saxony; apatite with topaz from St. Michael's Mount, Cornwall; mimetite, a group of fine yellow crystals, from Johanngeorgenstadt, Saxony; galena pseudomorphous after pyromorphite from Huelgoat, Brittany; also fine crystallized specimens of argentite, stephanite, cuprite, hæmatite, cerussite, aurichalcite, diopside, idocrase, and libethenite: by F. N. A. Fleischmann, Esq.

In addition to the above:—dufrenoysite, a fine large crystal from Binn, Switzerland (figured and described in the "Mineralogical Magazine," 1912, vol. xvi, p. 284); chessylite, a large bright crystal with tsumebite, from Tsumeb, German South-West Africa; leucite crystals from Monte Albano,

Rome; albite, two large groups of crystals from Vals, Switzerland; laumontite, a large series of isolated clear crystals preserved in water, from Baveno, Italy, and two groups from West Paterson, New Jersey; phillipsite, two large specimens from Acquacetosa, Rome; natrolite, a large specimen from Black Hill, Belfast; heulandite crystals in a large quartz-lined geode from Teigarhorn, Iceland: by F. N. A. Fleischmann, Esq.

Wolframite pseudomorphous after scheelite ("reinite") from Torrensvale, South Australia: by the Foote Mineral Company.

Iodide of lead from South Australia: by William B. Giles, Esq.

Hydrous anthophyllite and serpentine from Ballater, Aberdeenshire: by Russell F. Gwinnell, Esq.

Blende ("liver-blende") from Prussian Silesia: by F. W. Harbord, Esq.

Beryl, a fine pink faceted stone, from Madagascar: by E. Hopkins, Esq.

Zirkelite from Ceylon: by the Director of the Imperial Institute, London.

Hyalite, andesine, garnet, calcite, and radioactive lead and barium sulphate from Japanese localities: by Prof. Kotora Jimbō.

Chalcedony pseudomorphous after calcite, from Japan: by G. Lewis, Esq.

Gypsum, a large crystal enclosing native copper, from Mt. Elliot mine, north-west Queensland: by C. Maitland, Esq.

Crocoite on cerussite from Tasmania: by L. E. Marshall, Esq.

Jadeite, six samples of various colours from Burma: by Rev. Dr. D. Miller.

Lapis-lazuli, scapolite, and felspar, as worked articles, from the Burma Ruby mines: by A. H. Morgan, Esq.

Axinite associated with apatite: by Spencer G. Perceval, Esq.

Stibnite from the glacial drift near Keswick, Cumberland: by John Postlethwaite, Esq.

Quartz nodules lined with crystals from Agadir, Morocco: by A. Rosenthal, Esq.

Bournonite, galena, and chalybite from Pontgibaud, Puy-de-Dôme, France; iridescent limonite from Hungary; quartz and calcite pseudomorphous after garnet from Norway; goethite and limonite from Val di Castello, Tuscany; barytes from Bolivia; cassiterite from Malay: by Arthur Russell, Esq.

Hulsite, hinsdalite, sicklerite, beaverite, plumbojarosite, dumortierite, crystallized turquoise, and crystallized variscite; new species, and new occurrences of American minerals

recently described by the donor: by Dr. Waldemar T. Schaller.

Cassiterite of various forms from Federated Malay States: by J. B. Scrivenor, Esq.

Precious opal in geyserite from the Great Geyser, Iceland: by F. H. Sikes, Esq.

Calcite, dolomite, and orthite collected by the donor in North Wales: by W. Campbell Smith, Esq.

Luzonite from the Phillipine Islands: by Dr. Warren D. Smith.

Belgian marbles, a set of thirteen polished slabs to represent the different trade varieties: by the Société Anonyme de Merbes-le-Château, Belgium (through Marcel Leclerq, Esq.).

Chalcedony nodules enclosing water ("enhydros") from San Eugenio, Uruguay: by Lieut. J. C. Johnstone Soutter, R.N.

Gold in quartz from Santiago, Chili: by Percy Stevens, Esq., and Ciro Makin, Esq.

Concentrates panned from river sands in Southern Nigeria. by P. A. Talbot, Esq.

Cassiterite, a large crystal from Otavi, German South-West Africa: by Percy C. Tarbutt, Esq.

Calcite from Patterdale, Westmoreland: by T. Thornton, Esq.

Cassiterite from Northern Nigeria: by A. Stanley Williams, Esq.

Gold in serpentine from Porcupine, Ontario: by Ernest Williams, Esq.

Chalcedony nodules enclosing water ("enhydros") from Uruguay: by Dr. George C. Williamson.

Calcite, marcasite, and iron-pyrites from Fifeshire: by James Wright, Esq., Junr.

By Exchange:

Various minerals collected in Madagascar by Prof. A. Lacroix and described by him, including:—imerinite (a new variety of soda-amphibole), rhodizite, noumeite, tourmaline, corundum, apatite, autunite, spodumene, microcline, lepidolite, zinnwaldite, ctypeite, and beryl.

Model of a large diamond (the "Estrella de Minas") found in Minas Geraes in 1911.

By Purchase:

175 choice specimens specially selected from the Walker Collection (*see* p. 194), including:—crystallized gold from Colombia and Brazil; argentite from Mexico; bournonite, a large twinned crystal from Machacamarca, Bolivia; pyrargyrite from Andreasberg and Freiberg; polybasite, a group of very

large crystals from Guanaxuato, Mexico; fluor, fine groups of crystals of various colours, from Gersdorf in Saxony, Kongsberg in Norway, and Cornwall; hæmatite, a fan-like group of large platy crystals from Brazil; chrysoberyl, a magnificent group of large crystals of the alexandrite variety, from Takovaya, Urals, and a number of small isolated crystals from Ceylon; cassiterites from Cornwall and Bohemia; zircon from Lake Ilmen, Urals, and Fredriksvärn, Norway; quartz of different varieties from several localities; precious opal in matrix and wax-opal from Hungary, green opal from Ceylon; aragonite, twinned crystals from Aragon and Bohemia, and coralloidal from Sicily; cerussite, a large twinned crystal from Nerchinsk, Siberia, and bright green crystals from Leadhills, Lanarkshire; calamine, apple-green crystals from Chessy, France, and pseudomorphous after calcite from Derbyshire and Mendip Hills; calcite, a large violet twinned cleavage rhombohedron from the Harz, translucent botryoidal group from Dauphiné, France, and various other forms; pseudogaylussite, groups of pseudo-crystals brought up in the fishermen's nets in Lake Onega, Russia; aurichalcite on fluor from Rutland mine, Matlock, Derbyshire; chessylite, crystals partly altered to malachite, from Chessy, France; malachite, fibrous and concretionary, from Siberia; olivine, a large and unique crystal, transparent and of a rich green colour, probably from the Island of St. John, Red Sea, and granular aggregates from the Isle of Bourbon; chondrodite in crystalline limestone from Amity, New York; diopside from Maneetsok, Greenland; topaz, 13 fine crystals and groups from Brazil, Siberia, and Saxony, one yellow crystal from Brazil, being 23 cm. in length, and another, more perfect and of a rich clear orange-red colour, 10 cm. in length; beryl, a clear emerald in mica-schist from Takovaya, Urals, a large etched aquamarine of unknown locality, a deeply etched blue crystal from Mourne Mtns., Co. Down, and a pale green crystal from Kangayam, Madras; euclase, a clear green crystal 3·5 cm. in length from Brazil, and a pale-blue faceted stone; chrysocolla pseudomorphous after atacamite from Bogoslovsk, Urals; staurolite, a large twinned crystal from Baud, Brittany; spessartite from Haddam, Connecticut; hessonite, isolated crystals from Ceylon; grossular on serpentine from Novara, Piedmont; almandine crystal from India; ilvaite, two groups of large crystals from Elba; orthoclase, a sharply-developed Baveno-twin from Baveno, Piedmont, a large Carlsbad-twin from the Urals, a large simple crystal of adularia from St. Gotthard, and a polished slab of the moonstone variety from Sungangarsok, Greenland; labradorite, a thin slice of a porphyritic crystal in matrix, showing brilliant colours; tourmaline, pink crystals on granite from Elba; axinite, fine groups and isolated crystals from Bourg d'Oisans, Isère, France; sphene, a large rough crystal 13 cm. long from Arendal, Norway, a perfectly developed isolated crystal from Grisons, and a group of twinned crystals with apatite from Vâl Maggia, Ticino; columbite, an isolated crystal from Bodenmais, Bavaria; wulfenite from

Bleiberg, Carinthia; scheelite, a parallel group of white crystals with cassiterite on wolframite from Schlaggenwald, Bohemia; wolframite, a group of large crystals from Adun-Chalon, Siberia; celestite, clear pale-blue crystals with sulphur from Bex, Switzerland; barytes, crystals coloured yellow with orpiment from Transylvania, and red with cinnabar from Rhenish Bavaria; chalcanthite, crystallised, from Dolcoath mine, Cornwall; lettsomite from Banat; connellite, two good specimens from Cornwall; leadhillite, group of large plates from Leadhills, Lanarkshire; euchroite crystals from Libethen, Hungary; apatite, violet crystals from Ehrenfriedersdorf, Saxony, a blue crystal from Ceylon, orange-yellow crystals from Caprera, Spain, and greenish crystals from Haytor, Devonshire; pyromorphite from La Croix, Vosges, and from Huelgoat, Finistère; mimetite, yellow crystals of tabular and of prismatic habit from Johanngeorgenstadt, Saxony, acicular crystals and a fine group of the campylite variety from Cumberla r;cu pro-uranite from Cornwall, &c.

Various Japanese minerals, including:—topaz on mica and topaz enclosing stibnite, a fine large pyramidal crystal of scheelite, a group of large crystals of copper-pyrites, covellite, cinnabar, alabandite, pseudogaylussite, linarite, blende, rhodochrosite, iron-pyrites, mispickel, twinned crystals and distorted crystals of quartz, amethyst, microcline, idocrase, hedenbergite, cupro-scheelite, vivianite, white prismatic crystals 6 and 8½ cm. long of apatite, ilvaite, psilomelane, aragonite, calcite, and enargite.

A series of crystallized minerals from the mines at Tsumeb, German South-West Africa, including:—tsumebite (a new species), bayldonite, chessylite, calamine, cerussite, dioptase, anglesite, mimetite, malachite pseudomorphous after chessylite, bayldonite pseudomorphous after mimetite.

A series of minerals from the volcanic rocks of the Albanian Hills, near Rome, including:—haüynite, nephelite, sanidine, augite, leucite, wollastonite, biotite.

Braunite and hausmannite crystals from Miguel Burnier, Brazil.

Topaz, a large colourless faceted stone weighing 268 grams (1,300 carats).

Niccolite and rammelsbergite, crystallized, from Eisleben, Merseburg.

Quartz, twinned crystals from Elba.

Goethite from Crystal Peak, Colorado.

Stephanite, fluor, antimony, chessylite from Sardinia.

Brugnatellite from Monte Ramazzo, Liguria.

Anatase, isolated pyramidal crystals from Binn, Switzerland.

Zincite, two crystallized specimens from Franklin Furnace, New Jersey.

Cupro-uranite and calco-uranite from Mount Painter, South Australia.

Apatite, a fine isolated colourless crystal enclosing epidote and asbestos, from Untersulzbachthal, Salzburg.

Uraninite crystals altered to rutherfordine from German East Africa.

Calomel crystals from Mt. Avala, Servia.

Cassiterite, groups of large crystals from Cornwall.

Rhodonite, fine crystallized group and a very large crystal (21 × 16 × 11 cm.) from Franklin, New Jersey.

Garnet (andradite), pale green crystals with asbestos and magnetite from Val Malenco, Lombardy.

Several small crystallized specimens of various minerals selected from the collection of the late Prof. E. J. Chapman (1821–1904).

Chrysocolla and crystallized malachite from Katanga, Belgian Congo.

Herderite, isolated crystals from Poland, Maine.

Beryl, a pale-blue faceted stone weighing 28·213 grams (137½ carats).

Dufrenoysite, an isolated crystal rich in faces, from Binn, Switzerland.

Garnet (melanite), hornblende, and scapolite crystals from Norway.

Hulsite, hinsdalite, natramblygonite, new species of American minerals.

Corundum, a yellow faceted stone, and worked moonstones from Ceylon.

The following mineral names added to the Museum list were previously not represented by specimens in the Collection :—

Beaverite, ctypeite (ktypeite), esmeraldaite, hinsdalite, hulsite, imerinite, natramblygonite, plumbojarosite, rutherfordine, schungite, sicklerite, tsumebite.

Rocks.

By Presentation :

Ten samples of basalt from quarries near Belfast : by R. Bell, Esq.

Chromite-serpentine rock from Barraba, New South Wales : by W. N. Benson, Esq.

A series of 19 rock specimens collected by the donor in British East Africa : by Arthur Champion, Esq.

A series of 155 specimens of volcanic rocks, and a large block of basalt penetrated by a pipe, collected by the donor in the Azores : by Walter Child, Esq.

Tourmaline-quartz-rock showing orbicular structure, and eight samples of china-stone from St. Austell, Cornwall: by J. M. Coon, Esq.

Musical sand from Zambesi River, Rhodesia: by Allan B. Dick, Esq.

Five specimens of esterellite from the Esterel Mtns., France: by Dr. Julien Drugman.

Sandstone concretions from Zaras, Egypt: by F. Ll. Griffith, Esq.

Volcanic ash and andesite from Trinidad: by R. J. Lechmere Guppy, Esq.

Rhomb-porphyry (Norwegian), a large pebble from Suffolk: by Prof. T. McKenny Hughes, F.R S.

"Red rain" collected on deck of a ship in the Red Sea: by Geo. H. Jackson, Esq.

Materials from a mud volcano which gave rise to a new island off the coast of Trinidad in 1911: by Charles A. Mills, Esq.

Rock specimens collected by Dr. C. W. Andrews, F.R.S., on Christmas Island, Indian Ocean: by Sir John Murray, K.C.B., F.R.S.

Phosphate rock from Weenen, Natal: by James Peniston, Esq.

A series of 62 rock specimens collected by the donor in north-west Mongolia: by M. Philips Price, Esq.

Eight specimens from Skiddaw, Cumberland, and eight from Cape Colony, collected and described by the donor: by R. H. Rastall, Esq.

Thirty-two specimens from Costa Rica collected and described by the donor: by J. Romanes, Esq.

Material erupted in 1911 from a mud volcano in Trinidad: by Julian G. Rust, Esq.

Rock fragments from the sites of old villages in Sudan: by Dr. C. G. Seligmann.

Glacial boulders from Withernsea, Yorkshire: by G. Sheppard, Esq.

A series of 43 rocks collected by the donor in Sark, Channel Islands: by Dr. G. F. Herbert Smith.

Dolerite and spotted slate from Denbighshire; borolanite from Ross-shire; zircon-hornblende-syenite from the Cambridge drift: by W. Campbell Smith, Esq.

Fulgurites ("lightning tubes"), a large number of fragments, some of which fit together as a tube 3 ft. 2 in. long, from Maldonado, Uruguay: by Lieut. J. C. Johnstone Soutter, R.N.

Materials from a mud volcano which gave rise to a new island off the coast of Trinidad in 1911: by C. B. C. Storey, Esq.

Spherulitic dolerite from Vryheid, Natal: by Dr. E. Warren.

By Exchange:

Fifteen specimens of nepheline-syenites and pegmatites from the Los Islands, West Coast of Africa.

Thirty-five specimens of nepheline-syenites, tinguaites, monchiquites, &c., from Nosy Komba and Bezavona, Madagascar.

By Purchase:

Polished specimens of breccias from various localities.

Marscoite, pitchstone, granophyre, and basalt from Skye, Hebrides.

Porphyritic granite from the Riesengebirge, Silesia.

Lugarite from Lugar, Ayrshire.

Eclogite from Glenelg, Ross-shire.

Chlorite-schist ("miskeyite") from Vorarlberg.

Meteorites.

By Presentation:

Baroti, Bilaspur, Simla, Punjab, India, a fragment weighing 858·2 grams and smaller fragments weighing together 78·5 grams of the stone which fell in September 1910: by the Bombay Natural History Society (through N. B. Kinnear, Esq.).

Thin section of a stone from the Holbrook (Arizona) meteoric shower of 19th July 1912; coloured casts of the Kilbourn (Wisconsin) and Kingston (New Mexico) meteorites: by the Foote Mineral Company.

A polished and etched slice of artificial nickel-iron ("synthetic meteoric iron") showing minute crystalline structure: by Prof. Carl Benedicks.

By Purchase:

Ahumada, Chihuahua, Mexico, a fragment weighing 47·2 grams of this siderolite.

Cullison, Pratt Co., Kansas, a fragment weighing 2,789 grams of the stone found in 1911.

Fisterhölzelrics, Tepl, Marienbad, Bohemia, an etched slice weighing 58 grams of the iron found in 1909.

Hermitage Plains, Canbelego Co., New South Wales, a fragment weighing 667 grams of the stone found about 1909.

Holbrook, Navajo Co., Arizona, 102 stones, most of them complete, ranging in weight from 3,120·5 grams to 0·329 gram, and with an aggregate weight of 7,996 grams, from the remarkable shower of over 14,000 stones on 19th July 1912.

Kermichel, Vannes, Morbihan, France, a fragment weighing 112 grams of the stone which fell on 30th June 1903.

Kingston, Sierra Co., New Mexico, an etched slice weighing 360 grams of the iron found in 1891.

St. Germain-en-Puel, Vitré, Ille-et-Vilaine, France, a fragment weighing 113 grams of the stone which fell on 4th July 1890.

Tabor, Bohemia, a fragment weighing 18 grams of the stone which fell on 3rd July 1753.

Those meteorites of which the names are italicized belong to falls hitherto unrepresented in the Museum Collection.

VIII.—*Students and Visitors.*

The number of visits recorded as made to the Department for the purposes of consultation or study is 1,415. Many specimens of minerals have been determined for visitors and correspondents.

George T. Prior.

Department of Botany.

I.—*Arrangement and Conservation.*

During the past year 29,850 specimens have been incorporated with the Herbarium. This number includes 21,750 Flowering Plants, 8 Vascular Cryptogams, 4,748 Mosses, 443 Hepatics, 1,779 Lichens, 667 Algæ, and 455 Fungi.

Flowering Plants. — Collections have been mounted and incorporated wholly or in part as follows: — Small British collections from various donors and part of the herbarium of the late Thomas Hilton; Asia Minor (Siehe, Bornmüller); Japan (Faurie, Milne); China (Wilson); Manchuria (Stuart); Malaya (Ridley); Philippine Islands (Elmer); Nigeria (Talbot); Cameroons (Zenker); Liberia (Bunting); Angola (Gossweiler); Mexico (Purpus); West Indies (Britton, Broadway, Metcalfe); Sandwich Islands (Faurie).

Outstanding specimens from different collectors have been incorporated in various families, especially Ranunculaceæ, Leguminosæ, Umbelliferæ, Caprifoliaceæ, Rubiaceæ, Compositæ, Asclepiadaceæ, Boraginaceæ, Cyperaceæ, and Gramineæ.

Progress has been made with the selection, determination, and incorporation of the early Australian collections; also with the separation from the General Herbarium of the European material (families Geraniaceæ to Rosaceæ) and its rearrangement according to Nyman's "Conspectus Floræ Europæ"; outstanding specimens have been incorporated in the families dealt with.

Work of revision and rearrangement has been done also in the families Papaveraceæ, Menispermaceæ, Simarubeæ, Rubiaceæ, and others, and in the genera *Aconitum, Delphinium, Crotalaria, Dichapetalum, Cissus, Rhoicissus, Salacia, Senecio, Sabicea, Tarenna, Flagenium, Symphytum, Ficus,* and others, and as regards British species, *Viola, Rosa, Plantago, Atriplex, Polygonum, Betula.*

A number of early collections from South America and elsewhere have been sorted preparatory to incorporation. Duplicate specimens from the collections of Hartweg (Mexico), Gardner (Brazil), Schomburgk (British Guiana), Talbot (Nigeria), and others have been arranged in sets for distribution.

Ferns.—Additions to the genus *Asplenium* from numerous collectors have been revised or determined and arranged for incorporation; also collections from North Borneo, Nigeria, and South America.

Bryophyta.—A large portion of Wilson's Moss Herbarium, comprising the types and material treated in the volumes of Hooker's "Flora Antarctica" has been revised and incorporated. The cleistocarpous Mosses of the old herbarium of Robert Brown have been incorporated. A large series of

Indo-Malayan, &c. species received from Levier, Duthie, Fleischer, &c. has been arranged for incorporation. Various genera—*Phascum*, *Bruchia*, *Macromitrium*, *Trematodon*, *Leucomium*, *Chiloscyphus*, &c. have been in part revised. Small collections from Africa have been determined, and Dusèn's Cameroon Mosses revised.

Algæ.—The additions to the Fucoideæ have been laid out and incorporated, including those from Roscoff and Barbadoes (coll. Vickers). Work of rearrangement according to De Toni's Sylloge, and of incorporation of additions in the group of the Florideæ has been completed in the following families :—Bangiaceæ, Lemaneaceæ, Batrachospermeæ, and in the genera *Liagora* and *Galaxaura*. Specimens of *Liagora* revised and determined by Pilger and Zeh have been rearranged and mounted. Work of rearrangement and incorporation of the Codiaceæ has been completed in accordance with the monograph by A. and E. S. Gepp.

Fungi.—Progress has been made with the incorporation of the Discomycetes, and all outstanding specimens have been incorporated in the group Uredineæ. Numerous British specimens collected during the year have been determined and added to the collection.

Lichens.—Progress has been made with the revision and incorporation of the British Lichens, principally in the families Collemaceæ and Cladonieæ. Extra-European specimens from the Shuttleworth Collection and those collected by the "Challenger" Expedition have been incorporated with the general series.

Mycetozoa.—Collections by Lister and Phillips have been added to the general series.

Exhibition Series.—Various specimens have been added to the general series in the Public Gallery; the case illustrating water-plants has been revised, and some work has been done preparatory to the rearrangement of the exhibition of Algæ. The exhibition of the series of British Lichens has been completed, and progress has been made with the preparation of an exhibition of British Seaweeds. Progress has been made with the exhibition of Cryptogams, chiefly in the Ferns, in the Central Hall.

Catalogues and Guides.—Progress has been made with the preparation, printing, and illustration of the continuation of the *Flora of Jamaica* by Mr. Fawcett and Dr. Rendle, with the preparation of the Catalogue of the Sloane Herbarium by Mr. J. Britten, and with the revision of the first volume of the *Catalogue of British Lichens* by Miss Annie Lorrain Smith. A Catalogue of the plants collected by Mr. and Mrs. P. A. Talbot in South Nigeria has been prepared for publication, and progress made with its printing; progress has also been made with the preparation of a Guide to the exhibition of British Lichens.

II.—*Investigation.*

Collections have been determined either wholly or in part from the following localities and collectors : — Manchuria (Mrs. Stuart), Borneo (Miss Gibbs), Tropical Africa (Bunting, Gossweiler, Kassner, Talbot, and others), Upper Egypt and the Soudan (Sykes and MacDougal).

Mr. Baker has continued his critical study of the African species of *Crotalaria*, and Mr. Wernham of several genera of Rubiaceæ ; Mr. Fawcett and Dr. Rendle have continued their work on the Jamaica species of the early families of Dicotyledons ; and work on various families and genera has been carried out by numerous British and foreign Botanists. Numerous specimens and small collections have been determined for students and collectors.

In connection with work done in the Department specimens have been generously lent by the Directors of the Royal Gardens, Kew, of the Royal Botanical Museum, Berlin, and of the Botanical Museum, Zürich, the Regius Keeper of Botany, Edinburgh, the Government of Jamaica, Prof. Ignatius Urban, and Dr. De Wildeman.

Undetermined material has been lent for study and determination as follows :—Specimens of *Urtica* to Dr. Herman Ross, of the Royal Botanical Museum, Munich ; African specimens of the family Euphorbiaceæ to the Director of the Royal Gardens, Kew ; specimens of the family Halorageæ to Dr. Anton Schindler, Posen ; West Indian specimens of *Vernonia* to the Royal Museum, Stockholm ; specimens of Mycetozoa to Miss Lister ; of *Diosma* to Mr. R. A. Dummer ; and of Chinese Labiatæ to Mr. S. T. Dunn.

III.—*Departmental Library.*

1. *Arrangement*.—Four presses have been enlarged and the additional shelving thus provided has been used to relieve other overcrowded presses. The accessions to the plate collection of flowering plants and ferns have been mounted and incorporated. A number of autograph letters and portraits have been added to the collection.

2. *Cataloguing and Pressmarking.*—The usual routine work of registering, stamping, cataloguing and pressmarking has been carried out ; and Departmental work in connection with the General Catalogue of Books has been continued.

3. *Accessions.*—The additions during the past year have been, by donation, 55 volumes, 167 pamphlets ; by purchase 160 volumes, 1 pamphlet—in all, 215 volumes, 168 pamphlets. These include 30 periodicals in 133 parts, presented, and 90 periodicals in 713 parts, purchased—in all, 120 periodicals in 846 parts.

The following is a list of the principal donors:—J. W. Anderson, Esq.; F. M. Bailey, C.M.G., F.L.S.; Director, Botanic Gardens, Berlin; Rev. E. Blatter, S.J.; Direccion General de Estadistica y Estudios Geograficos, La Paz, Bolivia; Secretary, Botanical Exchange Club; G. S. Boulger, F.L.S.; T. S. Brandegee, B.S.; J. Britten, F.L.S.; Dept. de l'Agriculture aux Indes Néerlandaises, Buitenzorg; E. A. Bunyard, F.R.H.S.; Director, Botanical Survey, Sibpur, Calcutta; F. E. Clements, A.M., Ph.D.; Dr. A. von Degen; Prof. G. B. de Toni; Regius Keeper, Royal Botanic Garden, Edinburgh; Prof. A. J. Ewart, D.Sc.; J. Sykes Gamble, C.I.E.; Lady Hanbury; Principal, College of Hawaii; Bunzo Hayata, D.Sc.; U. P. Hedrick, Esq.; W. Botting Hemsley, F.R.S.; W. P. Hiern, F.R.S.: Dr. C. C. Hosseus; Prof. Heber Howe, Jr.; Secretary of State for India; Dr. B. D. Jackson, F.L.S.; C. E. Jones, Esq.; Secretary of Kew Guild; Frau A. Koorders-Schumacher; C. C. Lacaita, F.L.S.; Prof. Henri Lecomte; the Secretary, Liverpool Botanical Society; C. G. Lloyd, Esq.; Linnean Society of London; Royal Botanic Society of London; Royal Horticultural Society of London; Rev. S. A. M'Dowall; Prof. J. M. Macfarlane, D.Sc.; Mr. C. A. De Menezes; Director, Missouri Botanic Garden, Louis, Mo., U.S.A.; Spencer Moore, B.Sc., F.L.S.; Herr Friedrich Morton; C. E. Moss, D.Sc.; the Hon. Secretary for Agriculture, New South Wales; Nederlandsche Botanische Vereeniging, Nijmegen; H. H. W. Pearson, D.Sc.; Director, Royal Botanic Gardens, Peradeniya, Ceylon; Dr. G. V. Perez; Dr. A. A. Pulle; Director, Agricultural Research Institute, Pusa, Bengal; H. N. Ridley, C.M.G., F.R.S.; C. B. Robinson, Ph.D.; Hon. W. Rothschild, F.R.S.; Director, Imperial Academy of Science, St. Petersburg; C. E. Salmon, F.L.S.; C. S. Sargent, A.B., LL.D.; Mrs. A. Stebbing, F.L.S.; Director, Storrs Agricultural Experimental Station, Conn., U.S.A.: Director, Botanic Gardens, Sydney, N.S.W.; Miss J. E. Tilden, M.S.; Tōkyō Botanical Society, Tōkyō, Japan; Prof. J. W. H. Trail, F.R.S.; Prof. W. Trelease, Sc.D.; Dr. Eug. Warming; United States National Museum, Washington, U.S.A.; Gurney Wilson, F.L.S.; J. Medley Wood, A.L.S.; Director, Botanic Garden and Museum, Zürich.

The following are the principal acquisitions other than books that have been received:—350 photographs of Chinese Vegetation by E. H. Wilson [purchased from The Arnold Arboretum, Harvard University, U.S.A.]; 250 illustrations of the New Zealand Flora, presented by W. Botting Hemsley, F.R.S.; 187 photographs of vegetation from gardens in or near Algiers, by the Hon. W. Rothschild, F.R.S.; 63 original drawings of *Potamogetons* made by R. Morgan for A. Fryer's unfinished monograph, presented by Miss Rose Fryer; 32 original water-colour drawings figured in W. Wilson Saunder's "Mycological Illustrations," presented by Mrs. M. A. Stebbing, F.L.S.

4. *Binding.*—180 volumes have been bound, including five volumes of the Sloane Herbarium which have been rebound; several have been repaired.

IV.—*Publications.*

(1) *Issued by the permission of the Trustees.*—List of Plants collected by Miss O. Macleod and Mr. and Mrs. P. A. Talbot in West Central Africa. By Dr. Rendle, E. G. Baker, S. Moore and H. F. Wernham (Appendix to Miss Macleod's "Chiefs and Cities of Central Africa.")

Notes on Tropical African Convolvulaceæ. By Dr. Rendle. (Journal of Botany.)

New Plants from Jamaica. By Dr. Rendle and W. Fawcett. (Journal of Botany.)

Notes on *Plantago macrorhiza* Poir. By E. G. Baker. (Botanical Exchange Club Report.)

Note on *Plantago Serraria* L. By E. G. Baker and Miss R. M. Cardew. (Botanical Exchange Club Report.)

Notes on *Plantago.* By E. G. Baker and Miss R. M. Cardew. (Journal of Botany.)

A Revision of the Genus *Bertiera.* By H. F. Wernham. (Journal of Botany.)

New Rubiaceæ from Tropical America, I. By H. F. Wernham. (Journal of Botany.)

Marine Algæ of the Scottish National Antarctic Expedition. By A. and E. S. Gepp.

Some recent work on the cytology of Fungus-reproduction, I. By J. Ramsbottom. (Mycologisches Centralblatt; and Transactions, British Mycological Society.)

The Genus *Crassocephalum* Moench. By S. Moore. (Journal of Botany.)

Alabastra Diversa, Part XXII. Asclepiadaceæ Africanæ Novæ. By S. Moore. (Journal of Botany.)

Wayfaring Notes in Rhodesia (*concluded*). By Dr. R. F. Rand; with identifications by Members of the Staff. (Journal of Botany.)

(2) *By Students of the Collections other than Members of the Staff.*—Two *Linums* of Miller's Dictionary, Ed. 8 (1768). By Mr. J. Britten. (Journal of Botany.)

The History of Aiton's "Hortus Kewensis." By Mr. J. Britten. (Journal of Botany.)

Some Hybrids of the Genus *Symphytum.* By Mr. C. Bucknall. (Journal of Botany.)

An Enumeration of the Bruniaceæ. By Mr. R. A. Dummer. (Journal of Botany.)

What is *Astragalus Hypoglottis* L.? By Mr. C. C. Lacaita. (Journal of Botany.)

The Genus *Fumaria* L. in Britain. By Mr. H. W. Pugsley. (Journal of Botany.)

New or rare Microfungi. By Miss A. Lorrain Smith. (Transactions, British Mycological Society.)

An alien species: *Xylobotryum cæspitosum* A. L. Sm. By Miss A. Lorrain Smith. (Transactions, British Mycological Society.)

Bryosedgwickia, novum genus Entodontacearum, with further contributions to the Bryology of India. By Mr. H. N. Dixon. (Journal of Botany.)

A remarkable form of *Dicranella heteromalla* Schimp. By Mr. H. N. Dixon. (Journal of Botany.)

Algæ Novæ et Minus Cognitæ, I. By Prof. W. A. Setchell. (University of California Publications in Botany.)

Algological Notes, V-IX. By Prof. G. S. West. (Journal of Botany.)

V.—*Acquisitions.*

(1) *By Donation.*

Additions to the British Herbarium have been received from the following donors:—A. S. Hilton, Esq., the herbarium of the late Thomas Hilton, comprising mainly Sussex plants; Miss Rose Fryer, the herbarium of Potamogetons of the late Alfred Fryer, containing 5,450 sheets of specimens; C. E. Salmon, F.L.S., 18 Phanerogams; W. R. Sherrin, Esq., 36 Phanerogams; W. Barclay, Esq., 48 Phanerogams; Dr. C. E. Moss, 3 species of *Plantago*; H. W. Pugsley, F.L.S., 8 specimens of *Fumaria;* Major A. H. Wolley-Dod, 46 specimens of *Rosa;* G. C. Druce, F.L.S., 63 Phanerogams; Major O. C. Baker, cones of *Abies magnifica;* Rev. E. F. Linton, 6 flowering heads of *Hieracium* from Orphir, Orkney; Miss Lilian Lyle, 4 marine Algæ from Guernsey; Miss G. Lister, F.L.S., 103 Mycetozoa; C. P. Hurst, Esq., 4 Wiltshire mosses; Messrs. F. R. Hinkins and Son, 3 photographs of fungi, showing *Boletus* overgrown with mycelium of *Sepedonium;* G. F. Hook, Esq., 4 photographs of *Phallus imperialis;* and single specimens from Messrs. L. Cumming, P. Ewing, Rev. W. L. W. Eyre, A. S. Montgomery, Canon J. Vaughan and A. E. White.

The following donations have been made to the General Herbarium:—

Europe.

Major A. H. Wolley-Dod, 1,325 flowering plants from Gibraltar and 18 Alpine Roses; H. S. Thompson, F.L.S., 25 flowering plants; Prof. C. Sauvageau, 191 Brown Algæ (*Cystoseira*) chiefly from the French and Spanish coasts; Rev. P. G. M. Rhodes, 9 Swiss Lichens; and single specimens from the Hon. N. C. Rothschild and H. W. Pugsley, F.L.S.

Asia.

Mrs. B. Stuart, F.L.S., 162 Manchurian plants; Lieut. S. M. Toppin, 7 species of *Impatiens* from N.E. Burma; H. N. Ridley, F.R.S., 83 Phanerogams and 38 Cryptogams collected in Selangor by C. B. Kloss; the Regius Keeper of the Royal Botanic Garden, Edinburgh, 303 Phanerogams and 18 Cryptogams from China; General Sir Robert Biddulph, a transverse section of trunk of old Olive-tree from Cyprus; and single specimens from Capt. A. F. Hodgins and H. N. Dixon, F.L.S.

Africa.

Mr. and Mrs. P. A. Talbot, 855 Phanerogams, 16 Fruits, and 22 Cryptogams from South Nigeria; R. H. Bunting, Esq., 40 Liberian plants; Dr. G. V. Perez, spirit specimens of *Kleinia neriifolia* and *Crassula quadrifida*, and seeds of the former, from Teneriffe; the Hon. N. C. Rothschild, *Ophrys fusca* from Algeria; Entomological Research Committee (Tropical Africa), 1 Phanerogam and 4 Fungi; C. F. H. Monro, Esq., 5 plants from Rhodesia; the Percy Sladen Trustees, 29 plants collected in South-west Africa by H. H. W. Pearson; R. Kirkpatrick, Esq., 2 marine Algæ from Madeira; G. Thorncroft, Esq., 40 Phanerogams and 1 Fruit from the Transvaal; Prof. J. W. Gregory, F.R.S., 58 Phanerogams and a fern from Angola; Dr. G. B. Longstaff, 6 plants from Nubia; the Regius Keeper of the Royal Botanic Garden, Edinburgh, 94 Phanerogams and 7 Cryptogams from tropical Africa; and a single specimen from J. S. Masterman, Esq.

Australasia.

W. V. Fitzgerald, Esq., *Ptilotus fasciculatus* from West Australia.

Oceania.

The Director of the Imperial Institute, Fruits of *Cœlococcus solomonensis* from the Solomon Islands; H. N. Dixon, F.L.S., *Hymenophyllum* from Samoa.

America.

The Colonial Secretary, through the Director of Agriculture, Jamaica, 15 plants from that island; Dr. C. Skottsberg, 10 specimens of *Senecio* from Patagonia; Dr. M. A. Howe, an alga (*Neomeris mucosa*) from South Caicos Islands.

Antarctica.

The Managing Committee of the British Antarctic Expedition (1901–4), the freshwater Algæ collected by the Expedition.

General.

The Director of the New York Botanical Garden, 14 species of *Daltonia;* Miss G. Lister, F.L.S., 365 exotic Mycetozoa; Dr. H. B. Guppy, 33 Drift-fruits and seeds from the coasts of Europe and the West Indies.

Cultivated Plants.

Rev. D. Miller, 3 Burmese Orchids; the Curator of the Physick Garden, Chelsea, 44 specimens for exhibition; the Curator of the Botanic Garden, Cambridge, 2 species of *Peperomia;* Lady Hanbury, 12 specimens of *Mesembryanthemum* from La Mortola; J. O'Brien, Esq., 3 Orchids; Sir Trevor Lawrence, Bart., Orchid; Hon. Walter Rothschild, F.R.S., large inflorescence of an Orchid (*Lissochilus*).

(2) *By Purchase.*

British Isles.

W. H. Pearson, 100 Hepaticæ exsiccatæ.

Europe.

Through Dulau & Co.—A. von Hayek, Flora Stiriaca, lief. XXIII, XXIV, 182 specimens; O. Jaap, 50 Fungi selecti, ser. XXIII, XXIV, and 20 Myxomycetes, ser. VI; Kabát and Bubák, 50 Fungi Imperfecti, fasc. XIV; A. Kneucker, 60 Cyperaceæ & Juncaceæ, lief. VIII, IX; K. W. Krieger, 50 Fungi Saxonici, fasc. XLIV; H. and P. Sydow, Mycotheca Germanica, fasc. XXII, XXIII, 100 specimens; A. Toepffer, Salicetum exsicc., fasc. VII, 50 specimens; Tranzschel and Serebrianikow, Mycotheca Rossica, fasc. V–VII, 150 specimens; T. Vestergren, 50 Micromycetes rariores selecti, fasc. LXI, LXII.

Through E. M. Reineck.—42 selected species, by various collectors; 108 Bulgarian plants prepared by V. Stribrny.

Through T. O. Weigel.—A. Degen, 350 Gramina Hungarica, fasc. I–VII; A. Fiori and A. Béguinot, Flora Italica Cent. XV, XVI; J. Nowopokrowsky, Herbarium Floræ Tanaiticæ, fasc. I–III, 150 specimens; F. Petrak, 300 Fungi Eichleriani, lief. I–XV, and Flora Bohemiæ et Moraviæ, lief. I–XI, 1,100 specimens; E. Prager, Sphagnotheca Germanica, lief. I–IV, 200 specimens.

From the Publishers.—H. Dahlstedt, 100 Taraxaca Scandinavica, fasc. I, II; H. Sudre, Herbarium Hieraciorum, fasc. II, 50 specimens, and Batotheca Europæa, fasc. X, 50 specimens.

Asia.

The Arnold Arboretum, 751 Chinese plants collected by E. H. Wilson; J. Bornmüller, 363 Phanerogams and 53 Cryptogams from Syria; A. D. E. Elmer, 745 Phanerogams and 233 Cryptogams from the Philippine Islands; W. Siehe, 174 rare Oriental plants (selected).

Africa.

Dr. E. Gilg, 307 Phanerogams and 20 Cryptogams from the Cameroons, collected by Zenker; R. Maire, Mycotheca Boreali-Africana, fasc. I–III, 75 specimens (per T. O. Weigel); Rev. F. A. Rogers, 270 plants, chiefly from Rhodesia.

America.

E. Bartholomew, Fungi Columbiani, Cent. XXXV–XXXVII, and North American Uredinales, Cent. III–V; T. S. Brandegee, 415 Phanerogams and 45 Cryptogams from Mexico, collected by C. A. Purpus; W. E. Broadway, 111 Phanerogams and 28 Cryptogams from Tobago; O. Buchtien, 97 Phanerogams and 3 Ferns from Bolivia (per T. O. Weigel); Collins, Holden, and Setchell, Phycotheca Boreali-Americana, fasc. XXXVI, XXXVII., 100 Algæ (per Dulau & Co.); C. C. Haynes, 20 American Hepaticæ, decades IX, X; G. K. Merrill, 50 Lichens, mostly North American.

General.

H. Rehm, 102 Ascomycetes exsicc., fasc. XLIX–LI (per Dulau & Co.); V. Schroeder, 77 Ferns, mostly tropical, determined by E. Rosenstock; Sydow, 100 Uredineæ, fasc. XLIX, L, 25 Phycomycetes and Protomycetes, fasc. VII, and Fungi exotici, fasc. I (per Dulau & Co.).

(3) *By Exchange of Duplicates.*

A. B. Jackson, 227 British plants; Director, Botanical Museum, Christiania, 152 Lichens, mostly Norwegian; Curator, Botanical Department, Hofmuseum, Vienna, 100 Kryptogamæ exsiccatæ, mostly European; Director, Royal Gardens, Kew, 24 plants, mostly Arctic and Nigerian; Director, Botanic Gardens, Zürich, 147 South African plants, collected by R. Schlechter; Director, Bolus Herbarium, Kenilworth, Cape Town, 68 South African plants; Director, Botanic Gardens, Singapore, 132 Phanerogams and 2 Cryptogams from Malay Peninsula; Director, National Herbarium, Sydney, 19 Australian plants; Director, U.S. National Museum, Washington, 623 Phanerogams and 11 Cryptogams, chiefly from Washington and Oregon; Department of Botany, University of California, 208 Californian plants; Director, Botanic Garden, New York, 5 South American Mosses.

VI.—*Students and Visitors.*

The number of visits to the Department for consultation and research during the year was 3,962.

VII.—*Demonstrations.*

Demonstrations on the collections have been given by Dr. Rendle to the Geologists' Association and the St. Olave's School Natural History Club.

A. B. Rendle.

RETURN.

BRITISH MUSEUM.

1913.

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The Patent Office, 25, Southampton Buildings, Chancery Lane, London, W.C.
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Ordnance Survey and **Geological Survey Publications** can be purchased from—
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(N.B.—**Small Scale Maps** are, as a rule, procurable at Railway Bookstalls in England and Wales.)

The **Journal of the Board of Agriculture and Fisheries** is published monthly by the Board, at 4, Whitehall Place, London, S.W. Price 4*d.*, post free.

The **London Gazette** is published on Tuesday and Friday evenings by Wyman and Sons, Ltd. Price 1*s.*

The following is a List of Parliamentary and Official Publications relating to Museums and Public Galleries:—

BRITISH MUSEUM.

Account of the Income and Expenditure of the British Museum (Special Trust Funds) for the year ending 31st March, 1913; Return of the Number of Visitors to the Museum and to the Natural History Museum in each year from 1907 to 1912, inclusive; and Statement of the Progress made in the Arrangement and Description of the Collections, and an Account of Objects added in 1912.

H.C. 57 of Session 1913. Price 10½*d.*, post free 1*s.* 1½*d.*

VICTORIA AND ALBERT MUSEUM AND BETHNAL GREEN MUSEUM.

Report for 1913.

Prefatory Note. Re-arrangement of Collections. Decoration and Reconstruction of Buildings. Gifts, Bequests, Purchases, and Loans. Advisory Council. Administration. Publications and Photographs. Visitors and Students. Circulation Department. Appendices:—Attendance of Visitors and Issue of Students' Tickets. List of Provincial Museums and Exhibitions, Number of Objects Lent, &c. Lists of Donors, Bequests, Contributors of Loans, and Acquisitions.

[Cd. 7422] of Session 1914. Price 4½*d.*, post free 6*d.*

SCIENCE MUSEUM AND GEOLOGICAL SURVEY AND MUSEUM OF PRACTICAL GEOLOGY.

Reports for 1913.

Work of the Science Museum and of the Geological Survey, and List of Donations to the Museum of Practical Geology.

[Cd. 7451] of Session 1914. Price 5½*d.*, post free 7*d.*

PUBLIC MUSEUMS, &c.

Return, for 1913, of the Number of Visitors to, and Methods of Demonstration given in, all Public Museums, &c.

H.L. 16 of Session 1914. Price 1½*d.*, post free 2*d.*

BRITISH MUSEUM.

RETURN to an Order of the Honourable The House of Commons, dated 25 February 1914;—*for*,

COPY "of Account of the INCOME and EXPENDITURE of the BRITISH MUSEUM (SPECIAL TRUST FUNDS) for the Year ending the 31st day of March 1914; and, RETURN of the Number of PERSONS admitted to visit the MUSEUM and the BRITISH MUSEUM (NATURAL HISTORY) in each Year from 1908 to 1913, both Years inclusive; together with a STATEMENT of the PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and an ACCOUNT of OBJECTS added to them in the Year 1913."

Treasury Chambers,
8 April 1914.

C. F. G. MASTERMAN.

(*Sir William Anson.*)

Ordered, by The House of Commons, *to be Printed*, 8 *April* 1914.

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BRITISH MUSEUM
OFFICE
10 AUG 1914

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BRITISH MUSEUM.

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I.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

				Cash.			Stock, 2½ °/₀ Consols.		
				£.	s.	d.	£.	s.	d.
To BALANCES on the 1st April 1913 - - -				131	8	3	13,659	3	2
- DIVIDENDS received on 13,659*l.* 3*s.* 2*d.* Stock in 2½ per Cent. Consols, bequeathed by the Earl of Bridgewater, viz.:									
On the 5th April 1913 -	£.	85	7	4					
,, 5th July 1913 - -		85	7	4					
,, 5th October 1913 -		85	7	4					
,, 5th January 1914 -		85	7	4					
				341	9	4			
- RENT OF A REAL ESTATE, Whitchurch, bequeathed by the Earl of Bridgewater (less repairs, &c.) - - - - - - -				35	13	9			
			£.	508	11	4	13,659	3	2

II.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

				Cash.			Stock, 2½ °/₀ Consols.		
				£.	s.	d.	£.	s.	d.
To BALANCES on the 1st April 1913 - - -				-	13	8	2,879	10	7
- DIVIDENDS received on 2,879*l.* 10*s.* 7*d.* Stock in 2½ per Cent. Consols bequeathed by Lord Farnborough, viz.:									
On the 5th April 1913 -	£.	17	19	11					
,, 5th July 1913 -		17	19	11					
,, 5th October 1913 -		17	19	11					
,, 5th January 1914 -		17	19	11					
				71	19	8			
			£.	72	13	4	2,879	10	7

III.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

				Cash.			Stock, 2½ °/₀ Consols.		
				£.	s.	d.	£.	s.	d.
To BALANCES on the 1st April 1913 - - - -				17	9	1	5,744	-	8
- DIVIDENDS received on 5,744*l.* - 8*d.* Stock in 2½ per Cent. Consols, bequeathed by Dr. George Swiney for Lectures on Geology, viz.:									
On the 5th April 1913 - -	£.	35	18	-					
,, 5th July 1913 - -		35	18	-					
,, 5th October 1913 -		35	18	-					
,, 5th January 1914 -		35	18	-					
				143	12	-			
			£.	161	1	1	5,744	-	8

BRIDGEWATER FUND, from the 1st April 1913 to the 31st March 1914.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By One Year's Salary of the Egerton Librarian -	175 - -	
- Amount expended on purchase of Manuscripts -	287 14 -	
- Balances on the 31st March 1914, carried to Account for 1914–1915 - -	45 17 4	13,659 3 2
£.	508 11 4	13,659 3 2

FARNBOROUGH FUND, from the 1st April 1913 to the 31st March 1914.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By Amount expended in purchase of Manuscripts -	60 - -	
- Balances on the 31st March 1914, carried to Account for 1914–1915 - - -	12 13 4	2,879 10 7
£.	72 13 4	2,879 10 7

SWINEY FUND, from the 1st April 1913 to the 31st March 1914.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By Amount paid to Dr. T. J. Jehu, for Lectures on Geology in 1913 - - - - - - -	140 - -	
- Amount paid for advertising appointment of Swiney Lecturer - - - - - - -	8 2 -	
- Balances on the 31st March 1914, carried to Account for 1914–1915 - - -	12 19 1	5,744 - 8
£.	161 1 1	5,744 - 8

IV.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
To BALANCE on the 1st April 1913 - - - -	—	565 3 9
– DIVIDENDS received on 565*l.* 3*s.* 9*d.* Stock in 2½ per Cent. Consols, bequeathed by Dr. Birch in 1766, for the three Under Librarians of the British Museum, viz.:		
On the 5th April 1913 - - £. 3 10 8		
„ 5th July 1913 - - 3 10 8		
„ 5th October 1913 - 3 10 8		
„ 5th January 1914 - 3 10 8		
	14 2 8	
£.	14 2 8	565 3 9

V.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest and Extension of the Library and Reading Room of the British

	Cash.	Local Loans Stock.
	£. s d.	£. s. d.
To AMOUNT of Local Loans Stock on 1st April 1913 - - - - - - - - - -	—	14,447 1 7
– DIVIDENDS received during the year - - -	198 7 –	
– AMOUNT of Local Loans Stock purchased with the Dividends - - - - - -	—	126 17 1
– NET PROCEEDS of sale of 14,573*l.* 18*s.* 8*d.* Local Loans Stock as *per contra* - - - -	12,570 – 4	
£	12,678 7 4	14,573 18 8

VI.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest 1st April 1913 to

	Cash.	Metropolitan 3½ °/₀ Stock.
	£. s. d.	£. s. d.
To AMOUNT of Metropolitan 3½ per cent. Stock on 1st April 1913 - - - - - - -	—	9,291 16 5
– DIVIDENDS received during the year - - -	329 11 8	
– AMOUNT of Metropolitan 3½ per cent. Stock purchased with the Dividends - - -	—	338 11 8
– NET PROCEEDS of sale of 9,630*l.* 8*s.* 1*d.* Metropolitan 3½ per cent. Stock as *per contra* - -	9,726 4 2	
£.	10,055 15 10	9,630 8 1

VII.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the 1st April 1913 to

	Cash.
	£. s. d.
To BALANCE on the 1st April, 1913 - - - - - -	510 1 –
– DONATION (further anonymous contribution) - - - -	2,364 1 7
£.	2,874 2 7

the BIRCH FUND, from the 1st April 1913 to the 31st March 1914

	Cash.	Stock, 2½ % Consols.
	£. s. d.	£. s. d.
By Legacy paid to the three Under Librarians of the British Museum, whose offices existed in 1766, viz., the Keepers of the Departments of Printed Books, Manuscripts, and Natural History - - - - - - - - -	14 2 8	
- Balance on the 31st March 1914, carried to Account for 1914-1915 - - -	—	565 3 9
£.	14 2 8	565 3 9

of the late MR. VINCENT STUCKEY LEAN (for the Improvement Museum) from the 1st April 1913 to the 31st March 1914.

	Cash.	Local Loans Stock.
	£. s. d.	£. s. d.
By Amount expended in the purchase of 126*l.* 17*s.* 1*d.* Local Loans Stock, Commission, &c. - - - - - -	108 7 –	
- Cost of Power of Attorney - - - -	- 11 6	
- Stock sold as *per contra* - - - -	—	14,573 18 8
- Amount transferred to H.M. Office of Works for expenditure on British Museum Extension -	12,569 8 10	
£.	12,678 7 4	14,573 18 8

of the late MR. CHARLES DRURY EDWARD FORTNUM from the the 31st March 1914.

	Cash	Metropolitan 3½ % Stock.
	£. s. d.	£ s. d.
By Amount expended in the purchase of 338*l.* 11*s.* 8*d.* Metropolitan 3½ per cent. Stock, Commission, &c. - - - - -	329 11 8	
- Cost of Power of Attorney - - - -	- 11 6	
- Stock sold as *per contra* - - - -	—	9,630 8 1
- Amount transferred to H.M. Paymaster-General in aid of the Parliamentary Vote. 1913-1914 -	3,309 18 10	
- Balance on the 31st March 1914, carried to Account for 1914-1915 - - - - -	6,415 13 10	
£.	10,055 15 10	9,630 8 1

CARCHEMISH EXCAVATIONS FUND from the the 31st March 1914.

	Cash.
	£. s. d.
By Amount expended on Excavations - - - - -	2,117 19 3
- Balance on the 31st March 1914, carried to Account for 1914-1915	756 3 4
£.	2.874 2 7

Frederic G. Kenyon,
Director and Principal Librarian.

VIII.—NUMBER of Persons Admitted to Visit the British Museum and the British Museum (Natural History).

A.—Persons Admitted to View the General Collections in the British Museum in each Year from 1908 to 1913, both Years inclusive.

	1908.		1909.		1910.		1911.		1912.		1913.	
	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.
January	44,498	1,959	49,213	4,154	48,368	4,122	55,442	2,663	54,607	3,045	61,198	3,886
February	43,488	3,788	36,296	3,400	46,081	3,479	44,315	3,424	49,586	3,128	48,745	3,005
March	42,739	7,014	43,517	5,855	59,783	5,325	58,111	6,633	*13,341	*2,292	70,292	6,655
April	70,302	7,460	58,175	4,779	59,623	6,095	64,215	7,993	57,077	4,542	70,361	7,045
May	46,840	6,881	43,049	6,196	48,271	6,309	47,400	5,273	54,467	4,202	67,464	4,753
June	50,615	5,256	54,703	6,908	55,362	5,856	52,277	6,847	51,891	7,030	61,430	5,715
July	66,035	7,992	66,484	6,637	68,956	11,481	61,311	6,156	62,503	5,487	90,497	6,171
August	90,251	12,313	76,856	7,389	81,401	6,813	70,068	5,142	101,300	7,343	107,901	8,239
September	75,929	7,658	66,097	6,347	52,249	7,466	54,726	4,793	79,456	8,039	102,107	5,192
October	55,854	6,013	53,989	7,028	52,543	6,559	55,374	7,113	63,496	4,812	83,091	5,365
November	41,041	5,615	47,962	3,389	48,228	3,593	52,588	3,982	54,593	3,898	61,502	4,350
December	41,497	2,375	47,802	2,611	49,239	2,635	43,959	3,766	54,777	3,960	59,440	2,686
Total Number of Persons admitted to view the General Collections.	669,089	74,324	644,143	64,693	670,104	69,733	659,786	63,785	697,094	57,778	884,028	63,062
	743,413		708,836		739,837		723,571		754,872		947,090	

* The Museum was closed from March 5 to 24 inclusive.

Number of Visits of Students to particular Departments.

——	1908.	1909.	1910.	1911.	1912.	1913.
To the Reading Room - - - - - -	231,544	217,975	219,274	223,404	236,643	243,659
,, Newspaper Room - - - - - -	19,019	21,122	19,200	19,212	18,450	17,938
,, Map Room - - - - - - -	296	371	443	584	502	439
,, Department of Manuscripts - - -	12,370	11,683	11,256	11,731	12,142	12,090
,, Department of Oriental Printed Books and Manuscripts.	2,270	2,678	2,218	2,617	2,446	3,254
,, Print Room - - - - - - -	8,990	9,343	9,343	9,649	9,833	7,064*
,, Egyptian and Assyrian Department - -	3,100	3,260	3,020	3,110	3,451	3,860
,, Greek and Roman Department - -	457	563	418	609	755	1,744†
,, Galleries of Sculpture - - - -	1,614	1,077	1,843	2,301	1,879	1,945
,, British and Mediæval Department - -	3,267	3,591	3,665	3,260	3,646	3,827
,, Coin and Medal Room - - - -	4,293	4,377	4,228	4,050	4,044	3,565
Total - - -	287,220	276,040	274,908	280,527	293,791	299,385

* The Students' Room of the Department of Prints and Drawings was closed from 6th September for removal of the fittings to the new wing.
† Including visits for archæological inquiry.

The British Museum, Bloomsbury (including the Departments of Printed Books and Maps, Manuscripts, Oriental Printed Books and Manuscripts, Prints and Drawings, Egyptian and Assyrian Antiquities, Greek and Roman Antiquities, British and Mediæval Antiquities and Ethnography, and Coins and Medals) is open to the public free daily (except on Good Friday and Christmas Day and days of Public Fast or Thanksgiving) as follows :—

On WEEKDAYS from 10 a.m. to 6 p.m.

After 4 p.m. in January, February, November, December, and after 5 p.m. in March, September, October, only certain of the galleries remain open, viz. :—

On MONDAYS, WEDNESDAYS, and FRIDAYS.	Exhibitions of Manuscripts, Printed Books, Prints and Drawings, Porcelain, Glass and Majolica; Prehistoric, British, Anglo-Saxon, Mediæval and Ethnographical Collections.
ON TUESDAYS, THURSDAYS, and SATURDAYS.	Egyptian, Assyrian, Greek and Roman Galleries; Gold Ornament Room, American Prehistoric, British, Anglo-Saxon Collections, and the Waddesdon Bequest Room.

On SUNDAY AFTERNOONS :—

From 2 to 4	p.m. in January, February, November, December.
,, 2 ,, 5	,, ,, October.
,, 2 ,, 5.30	,, ,, March, September.
,, 2 ,, 6	,, ,, April, May, June, July, August.

Persons applying for the purposes of research and reference are admitted to the Reading Room under certain regulations every weekday, except the days specified below, from 9 a.m. until 7 p.m. The Newspaper Room is open, under similar regulations, from 10 a.m. until 5 p.m.

The Reading Room, Newspaper Room, and Students' Rooms in the Library and Department of Manuscripts are closed on Sundays, Good Friday, Christmas Day, and the first four weekdays in March and September.

Other Students' Rooms are closed on Sundays, Good Friday, and Christmas Day, and occasionally for cleaning.

Students are admitted generally to the several Departments on weekdays, from 10 till 4 or 5 o'clock; and to the Sculpture Galleries from 9 o'clock till the hour of closing.

British Museum,
1 April 1914.

Frederic G. Kenyon,
Director and Principal Librarian.

B.—Persons admitted to view the Collections in the British Museum (Natural History), Cromwell Road, in each Year from 1908 to 1913, inclusive.

	1908.		1909.		1910.		1911.		1912.		1913.	
	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.
January	22,626	2,459	33,756	4,269	34,759	3,561	34,294	2,836	31,122	3,115	30,789	2,923
February	24,253	5,117	25,852	4,163	29,426	4,063	26,541	4,537	26,931	3,904	25,439	3,529
March	29,361	6,990	29,153	5,053	49,982	6,044	32,140	5,514	* 22,719	*4,558	54,532	5,674
April	61,990	7,157	56,355	5,223	37,069	5,567	40,147	5,956	48,102	3,665	34,400	5,032
May	33,866	6,435	36,630	5,969	31,634	5,371	28,669	4,880	34,473	3,641	39,844	4,130
June	46,159	4,941	42,446	8,117	35,308	4,133	35,803	6,068	30,504	5,310	32,135	4,368
July	42,531	5,788	46,808	5,275	42,507	7,292	31,080	4,514	31,967	3,570	36,993	5,099
August	61,603	9,277	58,812	6,244	52,668	5,629	39,177	3,528	59,729	6,192	51,478	6,372
September	45,399	6,193	40,239	5,642	36,376	5,225	26,981	4,594	34,451	6,170	33,949	4,611
October	32,124	5,235	39,650	6,061	33,737	5,558	30,652	5,871	31,244	4,158	32,185	4,298
November	24,741	4,107	32,856	2,784	36,549	2,855	28,150	3,458	25,453	3,236	27,820	4,487
December	26,404	2,287	31,094	2,665	37,789	2,460	27,957	2,937	28,153	3,246	33,455	2,778
Total Number of Persons admitted to view the Natural History Collections (including students)	451,057	65,986	473,651	61,465	457,804	57,758	380,991	54,693	404,848	50,765	433,019	53,301
	517,043		535,116		515,562		435,684		455,613		486,320	

Number of Visits to Particular Departments for the purpose of Study.

	1908.	1909.	1910.	1911.	1912.	1913.
Zoology (including Art students)	10,220	11,461	12,443	12,175	12,564	9,982
Entomology	—	—	—	—	—	4,837
Geology	5,803	5,057	4,996	6,038	5,974	5,613
Mineralogy†	987	838	850	682	1,415	641
Botany	2,315	2,712	3,009	3,084	3,962	3,455
Total	19,325	20,068	21,298	21,979	23,915	24,528

* The Museum was closed from March 5 to 10 inclusive.

† Study series directly accessible to the public, and so labelled as to render reference to the staff almost unnecessary, have been arranged in this Department.

The Exhibition Galleries of the British Museum (Natural History), Cromwell Road, South Kensington, including the Departments of Zoology, Entomology, Geology and Palæontology, Mineralogy, and Botany, are open to the public, free, daily, except Good Friday and Christmas Day, and days of Public Fast or Thanksgiving.

The hours of Admission are as under:—

On WEEKDAYS, throughout the year from 10 a.m., in

January and February	to	5	p.m.
March	,,	5.30	,,
April to August	,,	6	,,
September	,,	5.30	,,
October, November, and December	,,	5	,,

also, on MONDAYS and SATURDAYS only, from the beginning of May to the middle of July, to 8 p.m., and from the middle of July to the end of August, to 7 p.m.

On SUNDAYS, in

January	from 2	to	4	p.m.
February 1st to 14th	,, 2	,,	4.30	,,
February 15th to end	,, 2	,,	5	,,
March	,, 2	,,	5.30	,,
April	,, 2	,,	6	,,
May to August	,, 2.30	,,	7	,,
September	,, 2	,,	5.30	,,
October	,, 2	,,	5	,,
November and December	,, 2	,,	4	,,

Persons are admitted to study in these Departments every weekday from 10 till 4 o'clock.

British Museum (Natural History),
28 February, 1914.

L. Fletcher,
Director of the Natural History Departments.

IX.—GENERAL PROGRESS AT THE MUSEUM, BLOOMSBURY.

The year 1913 showed a very remarkable increase in the number of visitors to the Museum, the total amounting to 947,090, as compared with 754,872 in the previous year. The rise has been almost continuous since 1907, when the total was 646,300, but the present increase is greatly in excess of any previously recorded. The total is the highest on record with the exception of 1904, when the number returned was 954,551. The figures for week-days only is 884,028, a total of over 100,000 having been reached in both August and September.

The visitors on Sundays amounted to 63,062, but this figure is lower than has been customary in recent years.

The number of visits by readers to the Reading Room showed an advance of over 7,000 on the figures for 1912, which were themselves higher than any previously recorded. The precise figures were 243,659, as against 236,643 in 1912, and the daily average 804, as compared with 778. The total number of volumes supplied was 1,542,701, exclusive of those on the shelves in the Reading Room to which readers have free access. In the Newspaper Room the attendance again shows a slight decline, the total number of visits being 17,938, as against 18,450, and the number of volumes used 67,568, as against 69,340. The number of volumes of country newspapers brought up from the repository at Hendon was 2,370, as compared with 2,642 in 1912.

The visits of students to other Departments of the Museum show a slight decrease, the total being 37,688, as compared with 38,698 in 1912. This, however, is accounted for by the fact that the Department of Prints and Drawings (the most largely frequented after the Department of Manuscripts) was closed for the last four months of the year, during the removal of the collections to the new wing. Its figures are consequently lower by about 2,400 than the average for the five preceding years.

During the year the main structure of the Extension Building was completed, and it was formally handed over by the First Commissioner of Works to the Trustees of the British Museum in October. Throughout the year the work of supplying the fittings was in full progress, and by the close of the year the main contracts were practically completed and the transfer of the collections had begun. His Majesty the King having been graciously pleased to fix provisionally a date in May 1914 for the opening of the building, it was hoped that by that date the Department of Prints and Drawings would be entirely installed in its new quarters, and the Stein Collection displayed in the lower public gallery. The preparation of the new Students' Room and studies for the Department of Egyptian and Assyrian Antiquities was also in progress.

No great change has been made in the exhibition galleries during the year. The exhibition of drawings by European artists acquired during the years 1904–1912 was closed in consequence of the transfer of the Department to its new quarters. A temporary exhibition of medical MSS. was prepared in connection with the meeting of the International Medical Congress in London in August. Minor rearrangements were made in the Departments of Greek and Roman Antiquities and of British and Mediæval Antiquities, the most important being that involved in the display of the Barwell Bequest of enamels mentioned below.

The lectures of the Official Guide continued to be popular, the numbers attending them being sometimes embarrassingly large. It is estimated that about 23,000 persons accompanied his tours in the course of the year.

The stall for the sale of photographs, guide-books, and other official publications, mentioned in the Annual Report for 1912, has been strikingly successful. A return prepared in November for the information of the Treasury showed an increase of nearly 2,000*l.* in sales during the past 16 months, as compared with the same period next preceding, The number of picture post cards sold amounted to about 155,000. A considerable extension of the stock of post cards sold in sets to illustrate particular subjects, and also of larger photographs, was in contemplation. It is to be observed that the existence of the stall has greatly stimulated the sales of guide-books and catalogues, as well as photographs.

Excavations were continued at Jerablus, on the site of the ancient Carchemish, during the spring and autumn, with most successful results. Long ranges of bas-reliefs were discovered, with figures and inscriptions in excellent condition, besides some sculptures in the round and a considerable amount of pottery. The continued generosity of the anonymous benefactor mentioned in the last Report makes it possible for the Trustees to carry on these very important excavations.

An officer of the Department of Printed Books was sent to America to study the latest developments in the methods of transporting books from the shelves to the readers, and to consider their adaptability to the conditions of the British Museum.

Much inconvenience has been caused by the practice (due to the suppression of the Stationers' Hall Register by the Copyright Act, 1911) of sending commercial papers (labels, advertisements, handbills, &c.) to the Museum for registration as "printed books" under the definitions of that Act.

The number of separate objects incorporated in the collections of the several Departments during the year 1913 is as follows:—

Department of Printed Books:	
Books and Pamphlets	38,116
Serials and Parts of Volumes	78,597
Maps and Atlases	3,741
Music	12,223
Newspapers (single numbers)	230,922
Miscellaneous	8,624
Manuscripts and Seals	1,475
Oriental Printed Books and Manuscripts	3,512
Prints and Drawings	8,410
Egyptian and Assyrian Antiquities	5,346
Greek and Roman Antiquities	572
British and Mediæval Antiquities	4,193
Coins and Medals	2,757
Total	398,488

Full lists of all noteworthy objects added to the collections in the course of the year are given below in the reports from

the several departments. The most important are summarised here, and particular attention may be called to two notable benefactions, namely, the Barwell bequest of Limoges enamels and other specimens of mediæval art, and the gift of the Arthur Morrison collection of Japanese and Chinese paintings by Mr. W. Gwynne-Evans (now Sir William Gwynne-Evans, Bart.),

The Department of Printed Books has continued to pay special attention to early printed books, the catalogue of which is making steady progress. Sixty-one incunabula and thirty-eight English books printed before 1640 have been acquired, including exchanges of 31 volumes with the Bodleian Library, and three with the Law Library of Harvard University, and purchases at the Huth and Dunn sales. An almost unique copy of an early (perhaps pirated) edition of "Robinson Crusoe" also deserves mention. The Department also received by bequest the philatelic library of the late Earl of Crawford, believed to be the most complete in existence.

The Department of Manuscripts likewise made some valuable acquisitions at the Dunn sale, notably three 13th century French Romance MSS. The gifts received by the Department include four remarkable letters of Charlotte Brontë, presented by Mr. Paul Heger. Among the purchases are a protest of the clergy in 1534 against the jurisdiction of the Pope, John Locke's autograph draft of his treatise on education, and autographs of H. Hallam, Mrs. Gaskell, Sir J. E. Millais, Holman Hunt, Robert Browning, C. S. Calverley, and A. R. Wallace. The Department also received, by bequest from Lady Layard, a large and important collection of Sir H. Layard's diplomatic papers and general correspondence; but the precise terms of the acceptance of the bequest remain under consideration.

The Western section of the Department of Prints and Drawings succeeded in acquiring two pen-and-ink sketches by Leonardo da Vinci, and several valuable drawings and prints, enumerated below. Some works of the first importance were obtained from the Heseltine collection through the liberality of Mr. Heseltine himself, Viscount Iveagh, and Mr. Walter Morrison. The National Art-Collections Fund continued its valuable services to the Department, which likewise benefited by the generosity of many private benefactors, whose names are set out below.

The Oriental section of the Department received a gift of quite exceptional value in the Arthur Morrison Collection, mentioned above, which was probably the finest of the kind in Europe, and greatly enhances the importance of the already fine collection of Oriental Art in the Museum. Three Chinese paintings of great importance were purchased, and the National Art-Collections Fund presented a large painting of the Mogul School, representing the House of Tamerlane.

The most noteworthy acquisitions of the Department of Egyptian and Assyrian Antiquities are the Canopic jars of a

queen of the XXIst Dynasty; a collection of 970 scarabs; a collection of nearly three thousand early Babylonian tablets; some important Hittite tablets; a bronze Egyptian serpent, presented by the Earl of Carnarvon; and a remarkable collection of cylinder-seals acquired in Assyria by Sir Henry Layard and bequeathed by Lady Layard.

The acquisitions of the Department of Greek and Roman Antiquities include six fine bronze statuettes, a large bronze axe, several interesting vases and fragments of early pottery, and a fine mosaic pavement from the Rhone Valley.

The Department of British and Mediæval Antiquities has made the most valuable acquisition of the year in the splendid collection of Limoges enamels and other examples of mediæval art bequeathed by the late Canon S. Barwell. This was the finest private collection of these enamels in existence, and correspondingly enriches the Museum. A full description of it is given below. Another striking and important acquisition, of a very different kind, is the seated figure of a Buddhist devotee, in pottery of the T'ang period, of more than life-size, which has no equal, and very few competitors, out of China. The National Art-Collections Fund and several private friends have been instrumental in obtaining this and many other valuable additions to the riches of the Museum. Among the mediæval acquisitions attention may be called to the seal-matrices from the Dimsdale sale, and a gilt pocket dial presented by Mr. M. Rosenheim. His Majesty the King has been graciously pleased to deposit in the Museum a number of objects presented to him by the Dalai Lama of Tibet, including a remarkable saddle, on which the first Dalai Lama rode into Lhasa.

In the Department of Coins and Medals special attention is due to the unique gold coin of Offa, the first coin struck in this metal by any English king, which was obtained at the Carlyon-Britton sale, with several other interesting coins. A silver tetradrachm of Timarchus (one of three known), and a double denarius of Germanicus, of which only one other specimen is known, may also be mentioned, together with the gift by Sir R. H. Lang of a collection of Greek coins from Cyprus.

The special Parliamentary grant for the assistance of Schools of Art has been devoted to the supply of (1) casts of ancient sculpture, (2) facsimiles of illuminated manuscripts, (3) electrotypes of Italian Renaissance medals. Gifts of official publications have also been made to many local libraries and museums.

The following are the publications issued by the Departments at Bloomsbury during the year:—

Catalogue of Egyptian Scarabs, &c., in the British Museum. By H. R. Hall. Vol. I.: Royal Scarabs. With 1,518 illustrations in the text. 4to., 1*l.* 15*s.*

Hieroglyphic Texts from Egyptian Stelæ, &c., in the British Museum. Part IV. 50 plates. Folio, 7*s.* 6*d.*

The Rosetta Stone. Collotype plate, with full descriptive text by E. A. Wallis Budge, Litt.D. 4to., 6*d*.

Catalogue of Books printed in the 15th Century now in the British Museum. Part III.: Leipzig-Pforzheim. German-speaking Switzerland and Austria-Hungary. With 19 plates of facsimiles. 4to., 1*l*. 15*s*.

Coptic Apocrypha in the Dialect of Upper Egypt. Edited, with English Translations, by E. A. Wallis Budge, M.A., Litt.D. With 58 plates. 8vo., 1*l*.

A Catalogue of the Armenian Manuscripts in the British Museum. By F. C. Conybeare. To which is appended a Catalogue of the Georgian Manuscripts in the British Museum. By J. O. Wardrop. 4to., 2*l*. 17*s*. 6*d*.

Catalogue of the Burmese Books in the British Museum. By L. D. Barnett, M.A., Litt.D. 4to., 1*l*. 5*s*.

A Supplementary Catalogue of Hindi Books in the Library of the British Museum, acquired during the years 1893–1912. By J. F. Blumhardt. 4to., 1*l*. 7*s*. 6*d*.

The Ku K'ai-Chih Roll. Admonitions of the Instructress in the Palace. A Painting by Ku K'ai-Chih in the Department of Prints and Drawings, British Museum. Reproduced in coloured woodcut. Text by Laurence Binyon. 7*l*. 7*s*.

Reproductions of Prints. Third Series. Part VII. (Specimens of Etching by the later Dutch Masters, 1640–1700.) 25 plates. 2*l*.

A Guide to the Collection of Casts of Sculpture in the Department of Greek and Roman Antiquities in the British Museum. 8vo., 6*d*.

A Guide to the Exhibition in the King's Library, illustrating the History of Printing, Music-Printing, and Book-binding. With illustrations. New edition. 8vo., 6*d*.

British Museum,
1 April 1914.

Frederic G. Kenyon,
Director and Principal Librarian.

X.—PROGRESS made in the ARRANGEMENT AND DESCRIPTION OF THE COLLECTIONS, AND ACCOUNT OF OBJECTS ADDED TO THEM in the Year 1913 (Bloomsbury).

DEPARTMENT OF PRINTED BOOKS.

I. *Arrangement.*—The works added to the collection during the past year have, as far as possible, been placed on the shelves of the Library, according to the system of classification adopted in the Museum.

The press-marks, indicating their respective localities, have been marked on the inside and affixed to the back of each volume.

The total number of these press-marks amounts to 83,323; in addition to which 122,673 press-marks have been altered, on books and in the catalogues, in consequence of changes and re-arrangements carried out in the Library; 34,040 labels have been affixed to books and volumes of newspapers, and 181,133 obliterated labels have been renewed.

The number of stamps impressed upon articles received is 568,195.

4,715 presses of books and newspapers have been dusted in the course of the year.

II. *Catalogues.—Cataloguing.*—55,203 titles have been written for the General Catalogue and for the Catalogues of Maps and Music.

Printing.—39,457 titles and index-slips for the General Catalogue, 1,917 for the Map Catalogue, and 12,650 for the Music Catalogue have been prepared for printing during the year; and 39,351 titles and index-slips for the General Catalogue, 1,681 for the Map Catalogue, and 15,650 for the Music Catalogue, have been printed.

Reprinting.—129 columns, including the headings Book of the Dead (7 columns), Samuel Taylor Coleridge (21 columns), Rodrigo Diaz de Bivar, called El Cid (7 columns), Alexandre Dumas (52 columns), Andrew Lang (19 columns), and Piranesi (8 columns) have been revised and reprinted.

Incorporation.—General Catalogue.—39,179 title-slips and index-slips have been incorporated into each of the three copies of this Catalogue. This incorporation has rendered it necessary, in order to maintain as far as possible the alphabetical arrangement, to remove and re-insert 53,517 title-slips and index-slips in each copy and to add to each copy 702 new leaves.

The system of fortnightly incorporation of accessions to the Library has been carried out with perfect regularity during the year.

20,000 slips have been laid down to form 8 volumes of the temporary Subject Index, 1911, &c., in use in the Reading Room.

Map Catalogue.—2,683 titles have been written for this Catalogue, and 1,476 title-slips have been incorporated into each of three copies of it. This incorporation has rendered it necessary to remove and re-insert 897 title-slips in each copy and to add to each copy 14 new leaves.

Music Catalogue.—11,145 titles have been written for the Music Catalogue, and 13,648 title-slips have been incorporated into each of the two copies of it. This incorporation has rendered it necessary to remove and re-insert 24,970 title-slips in each copy and to add to each copy 548 new leaves.

Shelf Catalogue.—For this Catalogue, in which the title-slips, mounted on cards, are arranged in order of press-marks, 35,379 have been so mounted and 30,765 have been incorporated in their proper order.

Catalogue of Books printed in the XVth Century. — Part III. of this Catalogue, containing descriptions of the books printed in the remaining towns of Germany, in German-speaking Switzerland and in Austria-Hungary, together with an Index to Parts I.–III., and a typographical map, was published by the Trustees in December 1913.

Guide to the Exhibition in the King's Library.—A revised edition of this Guide was issued in July 1913.

III. *Binding.*—The number of volumes and sets of pamphlets sent to be bound in the course of the year was 11,484, including 3,245 volumes of newspapers. In consequence of the frequent adoption of the plan of binding two or more volumes in one, the number of volumes returned was 9,433. In addition to this, 915 volumes have been repaired in the binders' shops.

Besides this, the following binding work has been done in the Library itself:—4,177 volumes have been repaired, 1,586 cleaned and polished, 200 broadsides have been bound in guard-books, and 3,340 volumes of reports, parts of periodicals, &c., have been bound in a light style of binding.

The following maps, charts, &c., have also been bound or mounted during the year:—Thirteen atlases and 190 volumes of the 6-inch and 25-inch Ordnance Survey have been bound; in addition, 230 general maps have been mounted on linen in 1,255 sheets, and 862 maps have been mounted on cards in 1,058 sheets.

48,258 numbers of Colonial Newspapers have been folded into 1,124 parcels, and 1,004 parcels have been tied up and labelled.

54 volumes of the General Catalogue have been broken up and re-bound in 76 new volumes. 77 columns have been re-laid, owing to the accumulation of titles under certain headings, as well as 150 columns of reprinted headings, in each of the

three interleaved copies of the General Catalogue. 27 volumes of the Music Catalogue have been re-bound in 32 new volumes.

IV. *Reading Room Service.*—The number of volumes replaced in the General Library after use in the Reading Room was 783,960; in the King's Library, 24,363; in the Grenville Library, 2,975; in the Map Room, 6,181; in the presses in which books are kept from day to day for the use of readers, 722,223; and in the Oriental Department, 2,999; making a total amount of 1,542,701 volumes supplied to readers during the year, exclusive of those to which the readers have personal access on the shelves of the Reading Room.

The number of readers during the year was 243,659, giving an average of 804·15 daily, the room having been open 303 days, with an average of more than six volumes daily for each reader.

Newspaper Room.—The number of readers during the year was 17,938, giving a daily average of over 59, the room having been open on 303 days. The number of volumes replaced after use was 67,568, giving a daily average of 222, and of over three volumes for each reader, not reckoning volumes, chiefly Parliamentary Papers, taken from the shelves of the Newspaper Room by the readers themselves. In addition 2,370 country newspapers were brought up to the Library from the Repository at Hendon for the use of readers.

Map Room.—439 visitors were admitted to the Map Room for the purpose of special geographical research.

Photography.—There were 488 applications for leave to photograph from books in the Library, and 1,423 volumes were supplied to the applicants for this purpose.

V. *Accessions.—General Library.*—38,116 complete volumes and pamphlets have been added to the General Library in the course of the year. Of these, 13,750 were presented; 17,178 were received by Copyright; 416 by Colonial Copyright; 948 by International Exchange; and 5,824 acquired by purchase.

78,597 parts or volumes of magazines and other serial publications and of works in progress have been added to the General Library. Of these, 7,164 were presented; 46,356 received by Copyright; 488 by Colonial Copyright; 1,980 by International Exchange; and 22,609 acquired by purchase.

Maps.—119 atlases, 133 parts of atlases, and 3,489 maps in 8,953 sheets have been added to the collection during the year. Of these, 39 atlases, 5 parts of atlases, and 2,159 maps were presented; 34 atlases, 16 parts of atlases, and 1,106 maps received by Copyright; 29 atlases and 41 maps by Colonial Copyright; and 17 atlases, 112 parts of atlases, and 183 maps acquired by purchase.

Music.—12,223 musical publications have been added to the collection during the year. Of these, 12 books and

pieces were presented, 9,669 books and pieces and 1,656 parts were received by Copyright; 533 pieces by Colonial Copyright; and 86 books and 267 parts acquired by purchase.

Newspapers.—The number of newspapers published in the United Kingdom, received under the provisions of the Copyright Act during the year, was 3,420, comprising 230,922 single numbers. Of these newspapers, 1,259 were published in London and its suburbs; 1,634 in other parts of England and Wales and in the Channel Islands; 292 in Scotland; and 235 in Ireland. Fourteen sets, comprising 3,545 single numbers, were received by Colonial Copyright; 272 sets, comprising 41,577 single numbers, of colonial and foreign newspapers have been presented; and 80 sets, comprising 21 volumes and 14,801 single numbers, of current colonial and foreign newspapers have been purchased.

Miscellaneous.—8,624 articles not included in the foregoing paragraphs have been received in the Department. These consist of Parliamentary Papers, single sheets, and other miscellaneous items.

The total number of articles enumerated above as having been received in the Department during the year, exclusive of newspapers, is 141,301.

Acquisitions of Special Interest.—The following is a list of the most important and interesting books acquired by purchase during the year. It includes purchases from the third portion of the Huth sale and from the first portion of the Dunn sale.

Foreign Books.—In addition to 31 foreign and two English Incunabula mentioned below as acquired by exchange, the following have been purchased:—

Thomas Aquinas: "Catena aurea." Sweynheim and Pannartz, Rome, 7 December, 1470. Vol. 2.

Xenophon: "Hiero, sive de vita tyrannica." Adam of Ammergau, Venice. [1471.]

St. Augustine: "Speculum peccatoris." Günther Zainer, Augsburg [about 1472].

"Constitutiones Clementinæ." Leonhard Pflugl and Georg Lauer, Rome, 18 March, 1473.

Pope Pius II: "De miseriis curialium." Johannes Philippus de Lignamine, Rome, 1473. In a contemporary binding.

Georgius Trapezuntius: "Compendium orationis ex Prisciano." In the types of Christopher Valdarfer, Milan, 1 February, 1474.

Gratianus: "Decretum." Adam of Rottweil, Venice, [1480.] With the arms of Pope Pius VI on the binding.

"États tenus à Tours en 1483." [Jean Dupré, Paris, 1483.]

Franciscus de Mairone: "Sermones." Printed by the Brothers of the Common Life, Brussels, 1484. In the boards of the original binding, bearing a monastic stamp. (Dunn copy.)

Justinian : "Digestum vetus." Johannes et Gregorius de Gregoriis, Venice, 1484.

Vincent de Beauvais : "Speculum morale." Anton Koberger, Nuremberg, 1485. In a fine contemporary binding.

"Statuta synodalia dyocesis Lexoviensis." [Jean Dupré, Paris, about 1485.] (Dunn copy.)

Petrus Hispanus (Pope John XXI.) : "Logicalia." Gerard Leen, Antwerp, 1486. (Dunn copy.)

Johannes Gritsch : "Quadragesimale." [Nicolaus Philippi, Lyons], 1487. (Dunn copy.)

Aurelius Bienatus : Elegantiarum epitomata." Germani fidelissimi, Naples, 1488. A hitherto undescribed book from this press.

"Poeniteas cito." Johann Koelhoff, Cologne, 1489. (Dunn copy.)

Cicero : "Paradoxa." Philippe Pigouchet, Paris [1490]. One of the earliest books printed by Pigouchet.

Jean Gerson : "La confession de maistre Jehan Jarson." Denis Mellier [Paris, about 1490].

Mancinellus : "Thesaurus." Stephan Plannck, Rome, 6 December, 1490.

"Biblia Latina." Jacques Maillet, Lyons, 1490.

"Breviarium Curiense, pars æstivalis." Adam of Speier, Basel [1490]. A hitherto unknown printer. No other copy is known.

"Le Songe du Vergier, qui parle de la disputation du clerc et du chevalier." Jacques Maillet, Lyons, 1491.

Albertanus, Judex : "De arte vivendi, loquendi et tacendi." Georg Wolf, "in ædibus Sorbone," Paris, 1491. (Dunn copy.)

"Tenor Fraternitatis de memoria mortis." Johann Reger, Ulm, 28 September, 1491.

"Flores legum." Danesius Hectoris, Bologna, 12 June, 1494.

Alexander de Villa Dei : "Doctrinale cum glossis." Preus and Luschner, Barcelona, 9 July, 1495. The first book from this press.

"La grant confession de Pasques." Antoine Caillaut, Paris [about 1495].

"Hug Schäpler." Hans Grüninger, Strassburg, 1500. The first edition of this romance. With numerous woodcuts. (Huth copy.)

Also the following later foreign books :—

"Cato cum commento." Laurent Hostingue for Michel Angier and Jean Macé, Caen [about 1505]. One of the earliest books printed at Caen in the 16th century. (Dunn copy.)

"Missale ad usum Sarum." Jamet Loys for Jean Heuvin, Rouen, 1508. (Dunn copy.)

"Le livre intituté Sydrach." Raulin Gaultier, Rouen, 1516. (Dunn copy.)

Erasmus: "Responsio ad annotationes Eduardi Lei." Johann Froben, Basel, 1520. The first edition. (Huth copy.)

"Von Ulenspiegel eins Bauren Sun des Lands Braunschweick." Melcher Sachssen, Erfurt, 1532. With numerous woodcuts. (Huth copy.)

Cicero: "Paradoxa." Alexander Weissenhorn, Augsburg, 1538. A translation into German by Simon Minervius Schaydenreysser, the author of a prose translation of the Odyssey, already in the Museum. On the title page is a woodcut by Hans Burgkmair.

"Le Jardin d'Honneur, contenant plusieurs apologues, proverbes, etc." Estienne Groulleau, Paris, 1549. Containing 72 woodcuts.

"Processionarium ad usum Sarum." Robert Valentin, Rouen, 1555.

"En ny Psalma Bok, med morgum andligum Psalmum, etc." Printed at Holar in Iceland, 1589. A very early specimen of Icelandic printing. In a contemporary binding, with paintings on the edges of the leaves. No other copy is known.

Francis Bacon: "Histoire des Vents." Paris, 1650. A translation of Bacon's Historia Ventorum by Jean Baudoin. The book did not appear in English until 1653.

"Alethini Philaretae Epistolæ de Ven. Johannis Palafoxü Orthodoxia." Rome, 1772. With the arms of Pope Clement XIV on the binding.

Alain René Lesage: "La Valise Trouvee." [Paris,] 1740. The first edition.

English Books.

Besides the fragment of a Caxton and the book printed by Pynson mentioned below as acquired by exchange, the following English books printed before 1640 have been bought:—

Alanus: "De Parabolis, sive Doctrinale altum." Wynkyn de Worde, 1510. (Dunn copy.)

"The Four Leaves of Truelove." Wynkyn de Worde [about 1530]. The only printed copy known of this poem. The poem exists also in manuscript. (The Huth copy.)

William Harrington: "The Commendations of Matrimony." John Skot, 1528. (Huth copy.)

Cicero: "The Paradoxa, or marvaylous Questions of Marcus Tullius to his familiar Marcus Brutus." Johan Redman for Robert Redman [about 1540]. (Dunn copy.)

"A certayne treatye most wyttely devised, etc." A translation by John Clerc of Lamant mal traicté, originally written

in Spanish by Diego de San Pedro. Robert Wyer [about 1543]. (Dunn copy.)

"A Consultorie for all Christians." John Oswen, Worcester, 1549. One of the earliest books printed at Worcester. (Huth copy.)

Hermannus de Wida: "A brief declaration of the duty of married folks, translated by Hans Dekyn." Hugh Syngelton [about 1550]. The first edition. (Huth copy.)

Stephen Gardiner, Bishop of Winchester: "De vera obedientia." Translated into English by Michael Wood. Rouen, 1553. The first issue of the Rouen edition. (Huth copy.)

Johannes de Indagine: "Briefe introductions unto the arte of Chiromancy." John Daye for R. Jugge, 1558.

Thomas Harman: "A Caveat or Warning for common Cursetors, vulgarly called Vagabones." William Griffith, 1567. A very rare book, of much interest as a picture of the life of Elizabethan tramps. With woodcuts. (Huth copy.)

Sir John Conway: "Meditations and Praiers." William How, 1571.

"The New Testament, translated by L. Tomson." Christopher Barker, 1577.

Joannes Piscator: "In Petri Rami Dialecticam Animadversiones." Henry Bynneman, 1581.

Thomas Saunders: "A true Description of a most lamentable Voyage to Tripolie in Barbarie." Richard Jones for Edward White, 1587.

"A briefe and true report of the proceedings of the Earle of Leycester for the reliefe of the towne of Sluce." London, 1590.

George Giffard: "A Dialogue concerning Witches and Witchcraft." John Windet, 1593. The rare first edition.

"The Pathway to Knowledge." [1596.] Translated into English by W. P., *i.e.*, W. Peters or W. Phillips. A book on arithmetic and book-keeping.

"A short Introduction of Grammar." The assigns of Fran. Flower, 1597. (Huth copy.)

Henry Lok: "Ecclesiastes in English Poesie." Richard Field, 1597. With a supplement of sonnets not found in most copies.

"Historia de Donne Famose, or the Romaine Jubile, 855." Edward White, 1599. The story of Pope Joan.

"The Flowers of Lodowick of Granada." Translated by Thomas Lodge. I. R. [*i.e.*, James Roberts] for T. Heyes, 1601.

John Hanson: "Time is a Turne-Coate. Or England's Threefold Metamorphosis." I. H., 1604. On the entry of James I into the City of London. The first edition. No other copy is known. (Huth copy.)

Thomas Blundeville: "Exercises." John Windet, 1606. The third edition.

Sir Hugh Platt: "Delightes for Ladies to adorn their persons, tables, closets and distillatories." H. Lownes, 1609.

Henry Peacham: "The Gentleman's Exercise." For John Brome, 1612.

Walter Quin: "Corona Virtutum Principe dignarum." John Bill, 1613. The first edition of a book written for the use of Charles I by his tutor.

"The Father's Blessing, or Sacred Councell to his Sonne." For L. Becket, 1616. An application of the Basilicon Doron of James I to ordinary parents and children. (Huth copy.)

Richard Fowns: "Trisagion, or the three Holy Offices of Jesus Christ." H. Lownes for M. Lownes, 1618. The first edition. (Huth copy.)

Matheo Aleman: "The Rogue, or the Life of Guzman de Alfarache." G. E. for Edward Blount, 1622. First issue of the first edition.

Sir Philip Sidney: "The Countesse of Pembroke's Arcadia." H. L., *i.e.*, H. Lownes, for Matthew Lownes, 1622.

"A Journal of the Voyage of the young Prince Frederick "Henry, Prince of Bohemia, taken in the sixth year of his age "from Prague in Bohemia to Luerden in Friesland." London, 1623. (Huth copy.)

Edmund Gunter: "The Description and Use of the Sector." William Jones, for John Tomson and for Edmund Weaver, 1623. The first edition.

John Lewis: "The Unmasking of the Masse-Priest. By C.A." R. Whittaker, 1624.

Richard Brathwait: "Novissima Tuba." Felix Kyngston, 1632.

Henry Harflete: "The Hunting of the Fox, or Flattery Displayed." London, 1632. (Huth copy.)

Emanuel Ford: "The most pleasant History of Ornatus and Artesia." B. Alsop and T. Fawcet, 1634. The first edition. (Huth copy.)

Also the following later books:—

Thomas Brugis: "The Discovery of a Projector, Shewing "the beginning, progress and end of the Projector and his "Projects." 1641. On the financing of inventions. The only copy known.

Benedict Haeften: "Schola cordis, or the Heart of itself gone away from God." 1647. The first edition of this English version, by Christopher Harvey.

"Hell broke loose, or the notorious design of the wicked Ranters." 1651. An account of a raid on Blackfriars' Church by fanatics. (Huth copy.)

Richard Flecknoe: "Heroick Portraits." 1660. (Huth copy.)

"The Gentleman's Calling." 1660. By the author of "The Whole Duty of Man." The first edition. (Huth copy.)

A volume containing five chapbooks printed by Robert Saunders at Glasgow, 1667–1669.

Elizabeth Atkinson: "A brief and plain discovery of the "Labourers in Mistery, Babilon, generally called by the name "of Quakers." 1669. The only copy known.

Richard Flecknoe: "Euterpe Revived." 1675. A book of epigrams. (Huth copy.)

George Fox: "Gospel Family Order, being a short discourse "concerning the ordering of families, both of Whites, Blacks, "and Indians." 1676. The first edition. (Huth copy.)

Jeremy Taylor: "Holy Living and Holy Dying." 1680. In an ornamental binding of the time.

George Granville, Lord Lansdowne: "The British Enchanters. A tragedy." 1706. The first edition. (Huth copy.)

Daniel Defoe: "Robinson Crusoe." London, printed for the Booksellers, 1719. This edition has many variations from the text of the authorised first edition printed in the same year. It was very possibly a piracy made from a stolen set of proof-sheets, and printed to be sold by travelling chapmen.

Eliza Haywood: "The Injured Husband." 1723. "The Rash Resolve." 1724. "The Unequal Conflict." 1725. "The History of Miss Betsy Thoughtless." 4 vols. 1751. All first editions. (Huth copies.)

Selections from the Hursley Magazine for the years 1848 and 1849. Privately printed at Hursley Park, 1861. One of thirty copies.

A Collection of Programmes of performances at the Lyceum Theatre during the management of Sir Henry Irving, 1879–1902, and Programmes of his performances in the provinces and in America to the date of his death. 30 vols.

Exchanges.

An unusual number of interesting books has been acquired during the year by exchanges with other libraries.

From the Bodleian Library, 31 *Incunabula.*

Marchesinus: "Mammotrectus." Peter Schoeffer, Mainz, 10 November, 1470.

"De Judæorum et Christianorum communione." [The Printer of Henricus Ariminensis, Strassburg, not after 1476.]

"Gesta Romanorum." [Martin Schott, Strassburg, about 1490.]

Werner Rolewinck: "Fasciculus temporum." [Johann Prüss, Strassburg, about 1490.]

Saint Augustine: "De fuga mulierum." [Ulric Zel, Cologne, about 1472.]

Gulielmus de Gouda: "Expositio mysteriorum missæ." [Ulric Zel,] Cologne [about 1494].

Alexander de Villa Dei: "Sermo." [Albrecht Kunne, Memmingen,] 1496. In German.

Pope Sixtus IV: "De futuris contingentibus." [Johannes Philippi de Lignamine, Rome,] 1473.

"Constitutiones Clementinæ." Leonhard Pflugl and Georg Lauer, Rome, 15 June 1472.

Angelus Sabinus: "Paradoxa in Juvenali." Georg Sachsel and Bartholomæus Golsch, Rome, 9 August, 1474.

Petrus Cadratus: "Oratio ad Innocentium papam VIII." [Bartholomæus Guldinbeck, Rome, about 1485.]

Franciscus Patritius: "Oratio ad Innocentium papam VIII." [Bartholomæus Guldinbeck, Rome, about 1485.]

Bartholomæus Scala: "Oratio ad Innocentium papam VIII." [Bartholomæus Guldinbeck, Rome, about 1485.]

Johannes de Targowissko: "Oratio ad Innocentium papam VIII." [Bartholomæus Guldinbeck, Rome, about 1485.]

Bernardinus Caravajal: "Oratio in die circumcisionis." [Stephan Plannck, Rome, 1484.]

Petrus Terrasse: "Oratio de divina providentia." [Georg Herolt, Rome, 1483.]

Ludovicus Imolensis: "Oratio de nomine Jesu." [Georg Herolt, Rome, 1486.]

Leonellus de Chieregatis: "Sermo in die Palmarum." [Johannes Besicken and Sigismundus Mayr, Rome, 1495].

Andreoccius de Shinucciis: "Oratio pro republica Senensi." [Johannes Besicken and Sigismundus Mayr, Rome, about 1495.]

Justinian: "Digestum vetus." Jacques Le Rouge, Venice, 21 November, 1477.

Varro: "De lingua Latina." [Johannes de Colonia and Johannes Manthen, Venice, 1474.]

Bartolus de Saxoferrato: "Lectura super prima parte digesti veteris." Andreas Torresanus, Venice, 28 December, 1488.

Cicero: "Orationes." [Antonius Zarotus, Milan, about 1480.]

Suetonius: "Vitæ duodecim Cæsarum." Franciscus Plato de Benedictis, Bologna, 23 February, 1488.

Calderinus: "Commentarium in Statii Sylvas." Henricus de Colonia, Brescia, 8 June, 1476.

Orosius: "Historiæ." [Leonardus Achates, Vicenza, about 1490.]

Ludovicus Vicentinus: "Vita beati Bernardini Senensis." Printed in Italy, perhaps at Venice, about 1483.

Petrus de Alliaco: "Tractatus de anima." Guy Marchant, Paris, 24 September, 1494. With woodcuts.

"Os facies mentum." [Felix Baligault, Paris, about 1495-1500.]

Quintilian: "Declamationes." [Johannes de Paderborn, Louvain, about 1475–1480.]

Gregory the Great: "Homeliæ in Ezechielem." [The Brothers of the Common Life, Brussels. About 1476–1481.]

From the Law Library of Harvard University.

Three English books from the collection of English law books purchased *en bloc* at the sale of the library of Mr. George Dunn.

William Lyndewode: "Constitutiones provinciales Angliæ." Richard Pynson, [about 1499.]

Year Book of Henry VI, year 3 [1424-1425]. Richard Pyson, 1510.

Christopher St. Germain: "The first and second Dialogues "in English betwixt a Doctor of Divinity and a Student in "the Laws of England." Robert Wyer, London, and Peter Treveris, Southwark, 1530.

From the Governors of St. Bride's Institute.

Two copies of a sheet of Lydgate's Life of Our Lady, printed at Westminster by William Caxton about 1484.

Music purchased.

Nineteen part-books of Madrigals, motets and Ricercari, printed at Venice between 1549 and 1562.

The "Medius Decani" part of Barnard's "First Book of Selected Church Musick," London, 1641. One of the rarest and most interesting English Music-Books.

"Gaudii Paschalis Jesu Christi Redivivi . . . Relatio historica Melodia harmonica adornata." Breslau, 1612. The music by Antonio Scandello (1517?—1580).

Donations.

The following is a list of the more important donations received during the year:—

The Philatelic Library of the late Earl of Crawford, consisting of nearly 4,000 volumes. This is believed to be the largest and most complete collection in existence of books, pamphlets, and periodicals on the subject of postage-stamps. *Bequeathed by the late Earl of Crawford, K.T.*

A complete set of French Parliamentary Papers from the year 1830 onwards, in about 4,000 volumes. *Presented by the Right Honourable the Speaker of the House of Commons.*

A volume containing four early editions of works by Emanuel Swedenborg. On the wrapper of the "Summaria Expositio Doctrinæ Novæ Ecclesiæ" is an autograph inscription by Swedenborg: "Hic liber est Adventus Domini, scriptum ex mandato." One of two copies so inscribed. *Presented by C. J. Whittington, Esq.*

"Mr. William Shakespeare's Comedies, Histories and Tragedies. The second impression." Printed by Tho. Cotes for John Smethwick, London, 1632. *Presented by the Board of Management of the London Institution.*

Thomas Wilson: "The Arte of Rhetorique." John Kingston, London, 1560. *Presented by R. B. McKerrow, Esq., Litt.D.*

John Sanford: "A Grammar or Introduction to the Italian Tongue." Joseph Barnes, Oxford, 1605. *Presented by Paget Toynbee, Esq., Litt.D.*

"A Collection of Old Ballads." 3 vols. London, 1727. With MS. notes by Bishop Percy. *Presented by Mrs. Arthur Broadwood.*

A Facismile of the Washington Manuscript of the Four Gospels in the Freer Collection. With an introduction by Henry A. Sanders. Ann Arbor, Michigan, 1912. 2 vols. *Presented by the University of Michigan.*

"The Mirrour of the Blessed Lyf of Jesu Christ. A translation of the Latin work entitled 'Meditationes vitæ Christi', attributed to Cardinal Bonaventura, made before the year 1410 by Nicholas Love, Prior of the Carthusian Monastery of Mount Grace. Edited by Lawrence F. Powell." Roxburghe Club, 1908. *Presented by the Lord Aldenham.*

"Femina. Now first printed from a unique MS. in the Library of Trinity College, Cambridge, by William Aldis Wright." Roxburghe Club, 1909. *Presented by William Aldis Wright, Esq., LL.D.*

"Letters of the Sitwells and Sackeverells." Edited by Sir George Sitwell. 2 vols. Printed by the author at his private press, Scarborough, 1900. *Presented by Sir George Sitwell, Bart.*

"Catalogue of the Collection of Watches, the property of J. Pierpont Morgan. Compiled by G. C. Williamson." London, 1912. One of twenty copies, on Japanese vellum, with hand-coloured illustrations. *Presented by the late J. Pierpont Morgan, Esq.*

"Catalogue of the Morgan Collection of Chinese Porcelain." Vol. 2. Privately printed, New York, 1911. *Presented by the late J. Pierpont Morgan, Esq.*

"Babylonian Records in the Library of J. Pierpont Morgan. Edited by Albert T. Clay." Parts 1, 2. Privately printed, New York, 1912. *Presented by the late J. Pierpont Morgan, Esq.*

"Catalogue of Paintings and Sculpture in the Collection of Charles T. Yerkes, Esq. 2 vols. New York, 1914. *Presented by W. E. Mandelick, Esq.*

"Le Morte D'Arthur. By Sir Thomas Malory." Printed at the Ashendene Press, Chelsea, 1913. *Presented by St. John Hornby, Esq.*

Les Grandes Heures de la Reine Anne de Bretagne et l'atelier de Jean Bourchichon. Par Léopold Delisle." 1913. *Presented by the Institut de France.*

"Alumni Carthusiani. A record of the Foundation Scholars of Charterhouse, 1614–1872." Privately printed, London, 1913. *Presented by F. A. Crisp, Esq.*

"The Amherst Tablets, being an account of the Babylonian Inscriptions in the Collection of Lord Amherst of Hackney. By T. G. Pinches." Part 1. London, 1908. *Presented by the Baroness Amherst of Hackney.*

"Facsimile of the Archangel Gospels." Moscow, 1913. *Presented by the Moscow Rumyantsov Museum.*

"Registo da Freguesia de Santa Cruz do Castello 1536 até 1628." Edited by Edgar Prestage and Pedro d'Azevedo. Coimbra, 1913. One of six copies on special paper. *Presented by Edgar Prestage, Esq.*

"Major James Rennell's Survey of the Ganges and Tributaries." A set of 33 maps lithographed from the originals, dated 1764, at the India Office. *Presented by the Secretary of State for India in Council.*

A Collection of 1614 Maps and Charts, including 120 in manuscript, mostly of the British Isles, ranging in date from the end of the eighteenth century to recent years. *Presented by the Elder Brethren of Trinity House.*

A Collection of more than 500 English Victorian Penny Envelopes, mounted in three albums. *Presented by C. Davies Sherborn, Esq.*

Arthur W. K. Miller.

Department of Manuscripts.

1. *Catalogue of Additions.*—The following MSS. acquired in 1911 have been described and indexed: Additional 38136, 38139–38141, 38178–38181, 38379–38382, 38408–38415, 38417, 38418, 38443–38461, 38468–38489, 38492–38496, and Egerton 2892–2894.

Of those acquired in 1912, Additional 38531, 38536, 38539–38581, 38591–38602, 38607, 38608, 38620–38624, 38635–38642, 38647–38651, and of those acquired in 1913, Additional 38653, 38655–38660, 38665–38670, 38672–38682, 38684, 38685, 38688–38691, 38693–38702, 38714–38719, 38726, 38728–38731, 38733, 38776 have been described and indexed.

The descriptions of Additional MSS. acquired in 1911 have been printed.

2. *Catalogue of Greek Papyri.*—In preparation of Vol. V. of the Catalogue, 1607-1768 (inventory-numbers), acquired in 1906 and 1907, have been examined and described, and a selection transcribed. The whole of the material for Vols. V. and VI. has been re-arranged; and for Vol. V., Nos. 1647–1717 (catalogue-numbers) have been described and copied, and the other documents of the same classes as these have been described.

3. *Catalogue of the Royal MSS.*—Sheets XX and YY of Vol. II. have been revised. Descriptions of 20 A. I–20 B. VI. have been revised and sent to press.

4. *Catalogue of Irish MSS.*—The following MSS. have been described:—Cotton, Vespasian E. II.; Harley 1802, 5280; Additional 4783, 18749, 33993; Egerton 126, 127, 146, 155, 171, 172, 174, 178, 1782.

5. *Catalogue of Charters.*—Additional Charters 55879–56050, acquired in 1911, and 56433–57034, acquired in 1912, have been described and indexed.

6. *Binding.*—Two hundred and seventy-eight Additional MSS. and two Egerton MSS. newly acquired, and ninety-four MSS. of the old collections have been bound, repaired, or lettered, together with seventy-three pieces of Papyri and one hundred and forty-three Books of Reference, volumes of Facsimiles, and Catalogues. Two Charters have been repaired.

7. *Verification.*—The entire collection of MSS. has been verified by comparison with the Shelf-Lists.

8. *Reproductions.* — Part I. (Hiberno Saxon and Early English) of a series of reproductions, partly collotype and partly in colour, from the various Schools of Illumination is in preparation.

Part I. of a reduced facsimile of the Old Testament portion of the Codex Alexandrinus has been commenced.

The introduction by Sir George Warner to the facsimiles from the Lindisfarne Gospels is in preparation.

9. *Stamping, folioing, and placing.*—Two hundred and four Additional MSS., two Egerton MSS., nine hundred and seventy-six Charters and Rolls, and one hundred and ninety-four Books of Reference (all newly acquired) have been stamped. The total of impressions made was 12,017.

Two hundred and forty-four MSS. have been folioed, with a total of 40,332 folios. 402 sheets have been numbered.

Three hundred and eleven newly-acquired MSS. and 113 Papyri have been placed, and twenty-eight MSS. and seven Papyri of the old collections have been re-placed. All have been press-marked and entered in Hand- and Shelf-Lists. Eleven hundred and fifty-eight Charters and Rolls have been placed and have been entered in the Hand-Lists. Numbers have been written on 2,148 newly-acquired Charters. Sixty-seven Seals and Casts have been provided with boxes, placed, and entered in Hand-Lists.

10. *Books of Reference.* — One hundred and ninety-six volumes and parts have been received, catalogued, and placed.

Eighteen volumes and parts of Facsimiles were added to the series now deposited in the Department and available for the use of Readers.

11. *Consultation of MSS.*—31,554 MSS. and 5,357 Charters and Seals have been consulted in the Students' Room, and one hundred and five MSS. in the Reading Room. The number of Students was 12,090.

Magna Charta was exhibited to 19,382 visitors.

12. *MSS. photographed.*—Eight hundred and ninety-six MSS. (including Papyri, Charters and Seals) were allowed to be photographed, with a total of 7,801 photographs taken.

13. *Exhibitions.*—A selection of medical MSS. was on exhibition for the International Medical Congress.

14. *Acquisitions.*—The number of Manuscripts and Documents, &c., acquired during the year has been :—

Additional MSS.	144
Egerton MSS.	8
Charters and Rolls	1,290
Papyri	3
Detached Seals and Casts	30

Among the most interesting purchases during the year are three 13th century MSS. (all formerly part of the same volume), acquired at the sale of the library of the late Mr. George Dunn. These are in old French and include the earliest known form of the romance of Guillaume d'Orange, a poem the recent discovery of which made a notable stir among Romance scholars. The collection (in 37 volumes) of correspondence and papers of the statesman William Huskisson, who was killed at

the opening of the Manchester and Liverpool railway in 1830, is also deserving of special mention.

The Museum has, as usual, benefited by the generosity of private donors, especially in the following instances :—

Four letters of Charlotte Brontë to M. Constantin Heger (the original of M. Paul Emanuel in "Villette"), 1844–1845. *Presented by M. Paul Heger, ex-president of the Royal Academy of Medicine in Belgium, and his sisters.*

Two volumes of Froissart's History written and illuminated in France early in the 15th century. *Presented by the Proprietors of the London Institution,* on the occasion of the winding-up of the Institution in its present form.

Ten autograph letters of Jonathan Swift, with other contemporary papers, jeux d'esprit, &c. *Presented by Mrs. Edward Bromley.*

Polyglot fragments from the collections of George Borrow. *Presented by C. K. Shorter, Esq.*

Two autograph ballads by the same. *Presented by T. J. Wise, Esq.*

Power of attorney by Lord Nelson, with other papers and charters. *Presented by Henry van den Bergh, Esq.*

Among other acquisitions of the year, by donation or purchase (many of which came from the Dunn sale, 13, 14 Feb., or the Phillipps sale, 19–23 May), are :—

Vitae Patrum, translated by Pelagius and others, 12th century.

Constantine Africanus, Viaticum, written in Italy, 12th century, with fine (14th century ?) binding. *From the Farnborough Fund.*

St. Augustine de Civitate Dei, written in the 12th century, probably in Spain. *From the Bridgewater Fund.*

Decretals, an early collection, *circ.* 1190. *From the Farnborough Fund.*

New Testament in Latin, illuminated (in S. France ?) in an unusual style, *circ.* 1200. *From the Bridgewater Fund.*

Lectionary of German use, 12th–13th century.

Sacramentarium, early 13th century, with curious miniature and initials in Italian style, calendar of French saints ; perhaps written for use in Jerusalem. *From the Farnborough Fund.*

Epistolar of Italian origin, 13th century.

Paris missal, with music, 13th century.

Exilium conventus Cantuariensis : fragment of a life of St. Thomas of Canterbury, 13th century.

Commentary of Rabanus Maurus on Deuteronomy and Joshua, 13th century.

Life of St. Sabas in Greek, colophon dated 1116, but probably written in the 14th century.

Campanus de astronomia, early 14th century.

Cistercian ordinal, early 14th century.

Latin exempla, a collection of English origin, imperfect, 14th century.

Bernardus de Gordonio, Liber Vitae Humanae, etc., 14th century.

Life and passion of Our Lord, English poem, 15th century.

Dutch Horae, with miniatures, diocese of Utrecht, 15th century.

Prayers in Dutch, late 15th century, with contemporary binding. *From the Farnborough Fund.*

Horae, written in the Netherlands, late 15th century, with contemporary binding. *From the same.*

Slavonic gospels, 16th century.

Story of Arnalda de Rochis in Latin prose and verse, 17th century. *Presented by C. Delaval Cobham, Esq.*

Capitulare salinariorum maris Venetiae, 14th century.

Chronicle of Augustinian foundations in England, etc., partly in the hand of the chronicler John Strecch of Kenilworth, 14th–15th centuries.

Roll of copies of historical documents, *temp.* Hen. VI.

Thomas Wall, Compendium Historiale, 1528.

Original protest of English clergy against the Pope's jurisdiction, 1534.

Nicholas Wotton, genealogical and historical collections, 16th century.

Documents relating to St. Teresa's foundation at Avila, 16th and 17th centuries. *Presented by R. B. Cunninghame Graham, Esq.*

"The five years of King James," afterwards (1651) published as "The Truth brought to Light."

Drafts of letters of G. Weckherlin as Latin secretary to Charles I., 1627–1635.

War Office correspondence, from the Blathwayt papers, etc., 1660–1759, in 20 volumes.

Certificates of penance performed at Westminster or Rochester, 1669–1772.

Hugo Imolensis and others, Gesta pontificum Romanorum, Leo IX.–Nicholas V., 17th century.

Accompt-book of the Smiths' Company of Coventry, 1684–1823. *From the Bridgewater Fund.*

Steffano di Zuanne di Michel, l'Architettura navale, 1686.

Executors' accompts of Cardinal Howard, 1694.

Official copies of Treasury papers relating to the conversion of the coinage, 1695–1696, in two volumes.

Copies of Lord G. Germain's letters to Lord Macartney as Governor of the Caribbees, and letter-book of the latter's replies, 1776–1779.

Letter-book and order-book of Vice-Adm. Sir G. Darby, commanding the Channel Fleet, 1780–1782.

Sailing and Fighting Instructions for the Fleet, 1782.

Letter-book of Lord Northington, Lord Lieutenant of Ireland, 1783–1784.

Logbook of H.M.S. Eurydice, 1804–1805, and commonplace-book of Andrew Pellat Green, 1808–1819.

Letters of Robert Stephenson the elder, relating to railways, etc., 1818–1836.

Typewritten copy of the diary, written on the leaves of a prayer-book now lost, of Capt. Arthur Conolly, murdered at Bokhara, 1842. *Presented by the late Col. E. R. Conolly.*

Letters of Sir J. Outram to Rev. G. P. Badger, 1856–1857.

Philosophical experiments made for Francis Bacon, and miscellaneous tracts, 17th century.

John Locke, autograph Directions on Education, 1684.

Assignments of copyright, etc., 1704–1822, collected by W. Upcott, three volumes.

Eleven letters of William Etty to his brother Walter, *circ.* 1811–1825.

Autograph letters of Joanna Baillie, Henry Hallam, and James Martineau. *Presented by P. W. Mallet, Esq.*

Memoir by John Bruce on the diplomatic history of Great Britain, 1834, two volumes.

Notebook of W. Maskell relating to his liturgical works, etc. *Presented by A. C. King, Esq.*

Two letters of Mrs. Gaskell relating to Charlotte Brontë's marriage, 1854.

Twenty-one letters of Sir J. E. Millais to the brothers Dalziel, 1857–1863, on the engraving of his series of illustrations of the Parables.

Twenty-four letters of Sir C. W. Dilke to W. Hepworth Dixon on literary matters, 1866–1876.

Autograph poem by C. S. Calverley.

Autograph poem by Robert Browning (Soliloquy of Æschylus) and sonnet on Browning by W. S. Landor.

Letter by R. Browning to D. G. Rossetti, with note by the latter, 1871. *Presented by Henry Wallis, Esq.*

Two letters of Holman Hunt to Ford Madox Brown, 1876–1877.

Holograph scientific articles by W. H. Dallinger and Alfred Russel Wallace. *Presented by C. Davies Sherborn, Esq.*

Transcript of a catalogue of Cotton Charters from a MS. at Oxford. *Presented by Rev. H. E. Salter.*

Transcripts of parish registers of Batley, co. York, by M. Sheard. *Bequeathed by the compiler.*

Transcripts of parish registers of Clapham, co. York. *Presented by Rev. E. Cookson.*

Rental of property of Corpus Christi College in Cambridge, 16th century.

Plans of ancient earthworks in cos. Berks and Oxon, by Rev. E. A. Downman.

About 630 charters relating chiefly to co. Stafford.

Bull of Urban II., 1096, and of Paschal II., 1113.

Indenture for commercial treaty with Flanders, 1407.

A collection of charters (nearly 500) relating to various parts of England, Scotland, the Channel Islands, etc.

Transcript in modern notation by Dr. T. L. Southgate of 215 pieces of viol da gamba music by 17th century English composers. *Presented by Sir E. E. Cooper.*

Autograph of Dr. William Croft's service in B flat.

Autograph full score of F. Clay's opera "The Bold Recruit."

Memorandum by G. Thomson relating to the publication of three sonatas of Beethoven, 1810.

English songs collected by William Chappell (Vol. I.).

J. P. Gilson.

Department of Oriental Printed Books and MSS.

Arrangement and Cataloguing.—The numbers of the sheets of the various Oriental Catalogues and other publications of the Department sent to press in 1913 are:—Armenian and Georgian MSS. Catalogue, 9 sheets; Burmese Printed Books Catalogue, 23 sheets; Coptic Texts, vols. iii. and iv., 74 sheets; Hebrew MSS. Catalogue, 7 sheets; Hindi Printed Books Catalogue, 4 sheets.

The numbers of Titles written for the Catalogues are:—Amharic, 2; Arabic, 870; Armenian, 15; Assamese, 7; Avestan, 10; Bengali, 414; Burmese, 507; Chin, 8; Chinese, 1,166; Ethiopic, 7; Gujarati, 384; Hausa, 4; Hebrew, 117; Hindi, 301; Hindustani, 184; Javanese, 5; Kachin, 6; Kanarese, 225; Karen, 2; Khasi, 10; Kurdish, 3; Kuvi, 2; Lepcha, 2; Lushai, 6; Malayalam, 173; Marathi, 741; Mikir, 2; Naga, 2; Oriya, 25; Pahlavi, 19; Palau, 2; Pali, 133; Panjabi, 24; Persian, 1,083; Prakrit, 45; Pushtu, 5; Sanskrit, 802; Santali, 2; Savara, 3; Shan, 2; Siamese, 8; Sindhi, 37; Sinhalese, 314; Syriac, 38; Tai, 4; Tamil, 461; Telugu, 284; Tibetan, 13; Tulu, 1; Turkish, 87. Total, 8,569.

Twenty-nine Hebrew MSS. have been fully catalogued.

One hundred and sixty-six short descriptions of MSS. have been entered in the Descriptive List, the Register, and the Classed Inventory.

One hundred and seventy-four MSS. (36,622 folios) have been folioed.

Publications.—A Hand-list of Arabic MSS. acquired since 1894, a supplementary Catalogue of Hindi Printed Books, vol. iii. of the Coptic Texts, and a Catalogue of Armenian and Georgian MSS. have been issued; and the Catalogue of Burmese Printed Books is now being bound for publication.

Binding.—The numbers of Printed Books and MSS. sent to the binders are:—Arabic, Hindustani, and Persian Books, 176; Chinese Books, 138; Hebrew Books, 38; Mongolian Books, 16; Books in Sanskrit and other Indian languages, 141; Tibetan Books, 52; MSS., 217.

Students.—The number of visits of Students working in the Students' Room attached to the Department during the year is 3,254. The number of Oriental Printed Books read by them in the Department is 10,743 (6,835 having been issued once only, and 3,908 reserved), and of those used in the Reading Room, 2,999. The number of Oriental MSS. read in the Students' Room is 7,431.

Photography.—One hnndred and forty-nine applications have been made to photograph books and MSS. in this Department.

Additions.—The number of volumes, pamphlets, &c., added to the collections of the Department during the year is 3,512, of which 3,346 are Printed Books and 166 are MSS.

Of the Printed Books, 1,351 were bought; 1,432 were received under the India Copyright Act; 207 were received under the Colonial Copyright Acts from Ceylon and Hongkong; and 356 were presented. Of the MSS., 155 were bought and the remainder presented.

The MSS. are as follows :—

Amharic	3
Arabic	105
Arabic and Persian	1
Arabic and Turkish	1
Aramaic and Arabic	1
Armenian	1
Chinese	13
Hebrew	4
Hebrew and Arabic	2
Korean	1
Persian	20
Persian and Arabic	2
Persian and Turkish	1
Shan	1
Sinhalese	1
Tamil	1
Turkish	8
Total	166

The most important acquisitions are :—

Arabic MSS.—(1) Sharḥ al-ghāyah, a commentary by Abu al-Ḥasan b.'Umar on the Kitāb al-ghāyah of Imām Abu Bakr, on the vocalisation of the Koran. Copied A.H. 443 (A.D. 1051), from an archetype dated A.H. 413. 12°. No other copy is known.

(2) Ta'rīkh Madīnat al-Salām, or Ta'rīkh Baghdād, lives of the scholars of Baghdad, by Al-Khaṭīb al-Baghdādī. Vols. 13 and 14, extending from the names beginning with "Laith" to the end of the work. Copied A.H. 625 (A.D. 1227). Fol. No complete volumes of this great work are known to exist in Europe, except a copy of vol. 6 in the British Museum.

(3) Al-Jam' bain al-ṣaḥīḥain, a dictionary of names of traditionists, compiled by Muḥammad b. Abi Naṣr al-Azdī from works of Abu Naṣr al-Kalābādī and Abu Bakr al-Iṣfahānī, which were derived from Bukhārī and Muslim respectively. Copied A.H. 656 (A.D. 1258). 4°.

(4) Mulḥat al-i'rāb, a poem by Ḥarīrī on Arabic grammar, with a commentary. Copied A.H. 685 (A.D. 1286). 8°.

(5) Maḳāmāt of Ḥarīrī. A made-up MS. in several hands, the oldest and largest part being of the xiiith century. 4°.

(6) A treatise on logic, apparently called Mukhtaṣar; abridged, as it would seem, from a longer work by the same

author entitled Kashf asrār al-manṭiḳ, which is possibly identical with the Kashf al-asrār ʻan ghawāmid al-afkār by Afḍal al-Dīn Muḥ. b. Nāmāwar b.ʻAbd al-Malik Khūnjī al-Shāfiʻī. xiiith century. 12°. No other copy seems to be known.

(7) Arbaʻīn al-yamānīyah, a catechetical treatise on Islam by Fakhr al-Dīn al-Rāzī. xiii–xivth century. 8° Very rare.

(8) Talkhīṣ fi al-tafsīr, an abridged commentary on the Koran by Aḥmad b.Yūsuf al-Kawāshī. Vol. ii., from Sūrah xx. to lxxvi. xiii–xivth century. 4°. Very rare.

(9) Asās al-balāghah, the lexicon of Zamakhsharī. Vol. i. Copied A.H. 722 (A.D. 1322). Fol. Very rare.

(10) ʻIbrat ūlī al-abṣār, a history from B.C. 331 to A.D. 1297, by Ismāʻīl b.Aḥmad Ibn al-Athīr, Vol. ii. Copied A.H. 730 (A.D. 1329). 4°. No other copies of this important work are known, except a MS. of vol. i. in the British Museum and a fragment in Paris.

(11) Sharḥ al-ishārāt, a commentary by Nāṣir al-Dīn al-Ṭūsī on part ii. of Avicenna's Ishārāt, (on physics and metaphysics). Copied A.H. 731 (A.D. 1330). 8°.

(12) A MS. containing :—(1) a ḳaṣīdah rhyming in *lām* on the seven Readings of the Koran, apparently based on Ibn Kathīr's work, by Shihāb al-Dīn Aḥmad b.ʻImād al-Dīn Ismāʻīl al-Akfasī (?); (2) Shuḏūr al-durar, a poem in praise of Muḥammad, by ʻAlī b.Yaḥya; (3) anecdotes of Sasanian and early Arab times, with occasional verses. xivth century. 4°.

(13) Al-Daḳā'iḳ, glosses on the differences between Nawawī's Minhāj al-ṭālibīn and its original the Mukarrar of Rāfiʻī. xivth century. 4°.

(14) Al-Ḥāshiyah al-ḳazwīnīyah, a supercommentary upon a work on Shāfiʻī law apparently called Al-Ṣiḥāḥ. Vol. i. xivth century. 4°.

(15) Kitāb al-ḥudūd, part of a copious commentary upon a work on Shāfiʻī law, dealing with penalties. xivth century. 4°.

(16) Tafsīr al-kabīr, or Mafātiḥ al-ghaib, Fakhr al-Dīn Rāzī's commentary on the Koran. Vol. i., from i. 1 to ii. 121. xivth century. Fol.

(17) Al-Ṣilah, a history of the scholars of Spain, by Ibn Bashkuwāl. The latter part, nearly corresponding to p. 316 -end of the edition in Bibl. Arab. Hisp. xivth century. 4°. Very rare.

(18) Kitāb subul al-khairāt, part of a large collection of traditions, by Abu Tammām Muḥ. b. ʻAbd Allāh al-Bardānī al-Silafī al-Baghdādī. xivth century. 4°. Neither the work nor the author seems to be otherwise known.

(19) Tadkirat al-tanbīh, a supercommentary by Jamāl al-Dīn al-Isnawī upon the Tashīḥ al-tanbīh, Abu Zakarīya al-Nawawī's commentary on Abu Isḥāk al-Shīrāzī's Tanbīh, a work on Shāfi'ī law. With note of collation dated A.H. 851 (A.D. 1447). 12°. Rare.

(20) Al-Badī'īyah, a poem exemplifying various figures of rhetoric, by Shams al-Dīn Muḥ. b. Jābir al-Andalusī; with a commentary, apparently by Shihāb al-Dīn Abu Ja'far Aḥmad b.Yūsuf al-Andalusī. xiv–xvth century. 12°.

(21) A polemic against the Rafidites, styled on the flyleaf Al-Nawāḳiḍ 'ala al-Rawāfiḍ, but earlier than Jurjānī's work of that name. xiv–xvth century. 12°. No other copy is known.

(22) Miftāḥ al-'ulūm of Sakkākī. Bk. iii, with a commentary by 'Abd al-Karīm al-Rashīdī. Copied A.H. 812 (A.D. 1409). 4°. Only one other copy of this commentary is is on record.

(23) Irtiyāḥ al-akbād, a religious and ethical treatise in prose and verse, by Shams al-Dīn Muḥ. b.'Abd al-Raḥmān al-Saḥāwī, composed for the consolation of persons suffering misfortunes, especially the loss of children, Copied A.H. 865 (A.D. 1460.) 12°. No other copy seems to be known.

(24) Ḍail wa-takmilah, a history of Spain and Spanish scholars by Marrākushī. Vol. iv. xvth century. Fol. The only other MS. of this work on record is in Paris.

(25) Al-Kawākib al-darārī, a commentary by Muḥ. b.Yūsuf al-Kirmānī on Bukhārī's Ṣaḥīḥ. A detached volume. xvth century. 12°.

(26) Nuzhat al-nāẓirīn, an encyclopædia of the sciences, attributed on the title-page to Zain al-Dīn 'Abd al-Malik 'Alī b.Abi al-Mannī (but according to Ḥājjī Khalīfah by Taḳī al-Dīn) al-Ḥalabī. xvth century. 4°. Very rare.

(27) Maṭāli' al-anwār, a manual of logic and metaphysic by Urmawī, with Rāzī's commentary. 2 pts. Copied A.H. 946 (A.D. 1539). 8°.

(28) Nafā'is al-'irfān, a treatise on mystic religion by Shams al-Dīn Muḥ. b.Wafā al-Iskandarī. Copied A.H. 952 (A.D. 1545). 8°. The only recorded copy is in Cairo.

(29) Masālik al-afhām, a commentary by Zain al-Dīn b. 'Alī al-Sha'mī al-'Āmilī on Ḥillī's legal treatise Sharā'i' al-islām. 2 vols. (bks. ii–iv). Bk. ii (autograph) copied A.H. 956 (A.D. 1549); bk. iii, A.H. 1012 (A.D. 1603); bk. iv, A.H. 967 (A.D. 1559). 4° & Fol. No other MSS. of this work are on record, except copies of bks. i and vi–vii at Leiden.

(30) Mukhtalif al-shi'ah, a treatise on the differences of the great Shiah jurists, by Jamāl al-Dīn Ḥasan b.Yūsuf al-Muṭahhar al-Ḥillī. Vols. iii. and vii. Vol. iii. copied A.H. 1026 (A.D. 1617), vol. vii. A.H. 974 (A.D 1566). 4°. This work seems to be otherwise unknown.

(31) Risālat al-waẓā'if, a treatise on syntax, by Fuḍail b.'Alī al-Jamālī al-Bakrī al-Rūmī. Copied A.H. 985 (A.D. 1577). 12°. Only one other copy—in Cairo—is known to exist.

(32) Jāmi' al-nādirah, proverbs and apophthegms, abridged from Tha'ālibī's Tamthīl al-muḥāḍarah; followed by anecdotes of Harūn al-Rashīd and Bahlūl. xvith century. 8°.

(33) Luḳṭat al-'ajlān, a tract on Shāfi'ī Kalām by Zarkashī, with commentary by Zakarīya al-Anṣārī. xvith century. 12°. Rare.

(34) Al-Mukhtaṣar, a compendium of Mālikī law by Khalīl b. Isḥāḳ with commentary by Aḥmad b. Muḥ. al-Dardair (?). xvith century. 8°. The commentary seems otherwise unknown.

(35) Tuḥfat al-gharīb, glosses by Muḥ. b. Abi Bakr al-Makhzūmī (?) al-Dumāmīnī on Ibn Hishām's grammar Mughni al-labīb. xvith century. 4°. No other copy appears to be on record.

(36) Safīnat al-najāḥ, a compendium of teaching on Shiah religious practice and ethics, compiled at the instance of Muḥ. Hāshim b.Ḥājjī Sulṭān Muḥ. by 'Ināyat Allāh b.Muḥ. b.Ḥusain. xvi–xviith century. 12°. No other copy seems to be known.

(37) Al-Rashād, a commentary by Saiyid Sharīf al-Jurjānī on the grammar Irshād al-hādī of Mas'ūd b.'Umar al-Taftāzānī. Copied A.H. 1018 (A.D. 1609). 8°.

(38) Ḥusn al-tanabbuhu, an anthology in prose and verse, chiefly based on tradition, on the dignity of man; compiled by Najm al-Dīn al-Ghazzī al-'Āmirī al-Shāfi'ī. Vol. v. Copied A.H. 1038 (A.D. 1628). 8°. No other copy of the work is on record.

(39) Muhaḍḍab bāri', a commentary on a compendium of Ḥillī's Sharā'i' al-islām. Copied A.H. 1040 (A.D. 1630). 4°. No other MS. is recorded.

(40) Sirāj al-ḳārī, a commentary by Abu al-Baḳā 'Alī b.'Uthmān b. Al-Ḳāṣih on Shāṭibī's Ḥirz al-amāni, treating of the readings of the Koran. Copied A.H. 1048 (A.D. 1638). 8°.

(41) Mukhtaṣar al-nāḳi', a treatise on Shiah law. Copied A.H. 1057 (A.D. 1647). 4° No other copy appears on record.

(42) Baḥr al-rā'ik, Nujaim al-Miṣrī's commentary on Nasafī's Kanz al-daḳā'iḳ, a manual of law. Vol. i. Copied A.H. 1064 (A.D. 1653), in a small and very elegant hand. Fol.

(43) Zaharāt al-ḍawīyah, a supercommentary by 'Alī b.Muḥ. b.Ḥasan al-'Āmilī on Al-Raudat al-bahīyah, a commentary by his great-grandfather Zain al-Dīn 'Alī upon the Shiah law-book Al-Lum'at al-dimashḳiyah of Muḥ. b. Makkī al-'Āmilī. Copied A.H. 1075 (A.D. 1664); autograph. 4°. No other copy of the work is on record.

(44) 'Iddat al-du'ā wa-najāḥ al-sā'ī, a work on conduct proper during prayer, by Aḥmad b. Fahd. Copied A.H. 1088 (A.D. 1677). 8°. No other MS. appears on record.

(45) Tafsīr al-kabīr, or Mafātiḥ al-ghaib, Fakhr al-Dīn Rāzī's commentary on the Koran. A detached volume, covering Sūras iv–x. Copied A.H. 1093 (A.D. 1682). 4°.

(46) Ḥall al-'iḳāl, stories of signal deliverances, by 'Abd Allāh b.Muḥ. Ibn Ḳaḍīb al-Bān. Copied A.H. 1094 (A.D. 1682). 8°. Only one other copy is on record, viz. that in Berlin.

(47) A MS. containing:—(1) a number of tracts by Ibn al-'Arabī; (2) Ḥayāt al-ma'āni, a translation by Rukn al-Dīn al-Samarḳandī of the Amṛitakunda, a Hindu work on Yoga; (3) al-Asrār al-'amā'īyah, a Hurufi work xviith century. 12°. Nos. 2 and 3 seem to be otherwise unknown.

(48) A MS. containing 5 tracts on theology and Sufism by Aḥmad al-Hamawī, and a sixth on the same by Shihāb al-Dīn al-Ramlī with commentary by his son Shams al-Dīn Muḥammad. xviith century. 12°. Some of these are very rare.

(49) Al-Fā'iḳ, a dictionary of the Traditions, by Zamakhsharī. Vol. i. xviith century. Fol.

(50) Irshād al-'akl al-salīm, a commentary on the Koran, by Abu Su'ūd Muḥ. b. Muḥ. al-'Imādī, dedicated to Sultan Sulaimān ibn Salīm. Vol. i. xviith century. 4°.

(51) Al-Jauhar al-maḥbūk, a poem on the corruption of the age, by 'Alawān b.'Alī al-Ḥamawī al-Haithamī. xviith century. 8°.

(52) Glosses upon a commentary on the Shiah work Al-Lum'at al-dimashḳīyah of Muḥ. b. Makkī al-'Āmilī; ascribed to a Shaikh Ja'far. xviith century. 4°. No other copy seems to be on record.

(53) Al-Maḥāsin al-mujtami'ah, lives of the first four Caliphs. xvii–xviiith century. 12°. Only two other copies are recorded.

(54) Mukhtaṣar fi uṣūl al-fiḳh, a compendium of Ḥanbalī law by 'Alā al-Dīn Abu al-Ḥusain 'Alī b.'Abbās. xviith century. 12°. No other copy seems to be known.

(55) Al-Risālah al-kāmilīyah, a tract on the prophetic office, by 'Alā al-Dīn Abu al-Ḥasan b. 'Alī b.Abi al-Ḥaram al-Ḳarshī. xviith century, 12°. One other copy—in Cairo—appears to be known.

(56) Ṣaḥīḥat al-Warrām, a collection of traditions by Al-Sa'īd Warrām b. Abi al-Firās. xviith century. 4°. No other MS. appears to be on record.

(57) A commentary by 'Alī b.'Abd al-'Ālī on Ḥillī's Ḳawā'id al-aḥkām, a treatise on Shiah law. xviith century. 4°.

(58) Sirr al-maktūm, a work on astrology by Fakhr al-Dīn Rāzī. xviith century. 8°

(59) Tafsīr al-Jalālain, a commentary on the Koran by Jalāl al-Dīn al-Maḥallī, completed by Jalāl al-Dīn al-Suyūṭī. xviith century. 12°.

(60) Al-Tashawwuf ila rijāl al-taṣawwuf, lives of noted Sufis, by Ibn Ya'ḳūb Yūsuf b.Yaḥya Abu 'Īsa. xvii–xviiith

century. 4°. No other copy of this valuable work appears on record.

(61) 'Umdat al-aḥkām, a metrical summary of Ḥanafī law by Muḥibb al-Dīn b. Taḳī al-Dīn al-Ḥamawī. xviith century. 12°. No other copy is on record.

(62) Durrat al-tāj, Druze biographies of prophets and saints, with especial reference to 'Abd Allāh al-Tanūkhī and Shaikh al-Fāzil, by Sulaimān b. Ḥusain al-Rājī. xviith century. 12°

(63) Al-Iḳnā', a manual of Shāfi'ī law by Muḥ. al-Khaṭīb al-Shirbīnī. xviith century, with later additions. 8°.

(64) Sharḥ al-khuṭub al-arba'īn al-wad'ānīyah, the 40 Traditions of Muḥ. b.'Alī b.'Abd Allāh b. Wad'ān al-Mausilī, with commentary by Abu Naṣr 'Abd al-'Azīz b. Aḥmad al-Barjilagī (Barjanlagī ?). xvii–xviiith century. 8°. No other copy appears on record.

(65) A Sufic work on the religious life, styled on the flyleaf Al-Wisā'ī, by Abu 'Abd Allāh al-Ḥārith b. Asad al-Muḥāsibī al-Baṣrī. xvii–xviiith century. 12°. Rare.

(66) A religious and ethical treatise, stated to be by 'Abd Allāh al-Tanūkhī. xvii–xviiith century. 12°.

(67) A supercommentary by Abu Bakr b. Ismā'īl al-Sharuwānī upon Khālid al-Azharī's commentary on his grammar Al-Muḳaddimah. Copied A.H. 1105 (A.D. 1693). 8°.

(68) Bulghat al-ghawwāṣ, a mystical work by Ibn al-'Arabī. Followed by Kitāb al-taḥrīr and other tracts. Copied A.H. 1108 (A.D. 1696). 8°.

(69) Ṭabaḳāt al-ḥanafīyah, notices of the lives and works of eminent jurists and divines, by 'Alī b. Amr Illāh al-Ḥanā'ī. Copied A.H. 1117 (A.D. 1705). 8°.

(70) A commentary by Ibn Ya'ḳūb al-Maghribī upon the Talkhīṣ al-miftāḥ of Ḳazwīnī, written for Sultan Muḥ. Ismā'īl al-Maghribī. Copied A.H. 1148 (A.D. 1735). 8°. No other MS. seems to be on record.

(71) Al-Nūr al-wahhāj, a work on the ascent of Muḥammad, by Abu al-Irshād 'Alī al-Ujhūrī. Copied A.H. 1158 (A.D. 1744). 8°. Rare.

(72) Baḥr al-ḥaḳā'iḳ, a treatise on Shiah law by Muḥ. b. Ibrāhīm b. al-Ḥusain al-Ḥusainī al-Ḥasanī. xviiith century. Fol. No other MS. appears to be known.

(73) Ḍiyā al-lāmi', a commentary on an abridgment of Al-Nāfi', an epitome of Ḥillī's Sharā'i' al-islām. xviiith century. 8°. No other copy seems to be on record.

(74) Al-I'lām fi faḍā'il al-Sha'm, an abridged recension by Aḥmad b. 'Alī al-Manīnī of Fazārī's topography of Jerusalem, etc. xviiith century. 8°. The only other copy on record is that in Cairo.

(75) Manāḳib 'Umar ibn al-Khaṭṭāb (here styled Kītāb fi al-akhbār al-Imām 'Umar), a life of the second Caliph 'Umar, by Ibn al-Jauzī. xviiith century. 8°. Very rare.

(76) Mubāḥith sharīfah fi manāḳib Abu Ḥanīfah, a life of Abu Ḥanīfah, by Ḥusain, an official of the Ottoman High Court; composed in 1858. xixth century. 8°. No other copy appears on record.

(77) Ghāyat al-shahwāt, a life of Abu Nuwās with extracts from his poems. Copied A.H. 1328 (A.D. 1910). 8°. Rare.

(78) Dīwān of Abu 'Abd Allāh Muḥ. b. Bakhtiyār, called Ablah. xxth century. 8°. With the exception of a few of this author's poems in MSS. of the British Museum, no other MSS. are known.

(79) Dīwān of Shihāb al-Dīn Aḥmad b. Muḥ. al-Khayyāṭ. xxth century. 8°. Very rare.

(80) A Samaritan commentary on the book of Genesis, by Ibrāhīm, of the family of Murjān. xxth century. Fol.

Arabic and Persian MSS.—(1) Busīrī's Arabic poem Al-Burdah in praise of Muḥammad, with a Persian commentary and translation by Abu al-Ḳāsim Junaid b. Bahram al-Shīrāzī. xvith century. 8°.

(2) Al-Du'ā al-ṣaḥīfah al-kāmilah, the prayer-book of Zain al-'Ābidīn, the fourth Imām, with Persian interlinear translation and marginal glosses. Copied A.H. 1079 (A.D. 1668). 8°.

(3) Nuzhat al-khātir, a lexicon of difficult words and phrases of the Koran, by Sijistānī; with additions by Fakhr al-Din Muḥammad b.'Alī al-Najafī. Followed by a fragment of a similar work on Koran and Traditions, and preceded by an Arabic-Persian vocabulary of the Koran by "Saiyid Sharīf." xviiith century. 4°. Very rare.

Aramaic and Arabic MS.—(1) Marḳa's Commentary on the Pentateuch, in Samaritan script. Copied A.H. 1154 (A.D. 1741). 4°.

Chinese Books.—(1) A collection of some 30 Chinese works, in over 200 volumes, dealing especially with history and geography, and including topographies of Shao-chou Fu and Hsin-hui Hsien, biographies of Taoist saints, a complete history of China, and the collected works of the Tang poet Chang Chiu-ling. *Presented by Mrs. Selby.*

Chinese MSS.—(1) A collection of 12 Chinese MSS. from Korea, comprising two editions of the Tung ju shih yu lu (biographies of Confucian teachers and their disciples in Korea), manuals for officials of the Korean Government, itineraries, etc.

(2) Yü chih wên, miscellaneous essays by Ch'ien Lung. A calligraphic copy. Copied A.D. 1780 (?).

Hebrew MSS.—(1) The Liturgy for the New Year, according to the Spanish Rite. xivth century. Vellum. Fol.

(2) The Common Prayers of the Samaritan Liturgy. Copied A.H. 1083 (A.D. 1672). Fol.

(3) The Samaritan Liturgy for the Day of Atonement. xixth century. 4°.

(4) The Samaritan Liturgy of Commemoration for the Prophet Moses. xix–xxth century. Fol.

Hebrew and Arabic MSS.—A collection of 20 fragments, including portions of Maimonides' Dalālat al-ḥā'irīn, Sa'adyah's translation of Exodus, liturgies, Talmud, and rabbinical literature.

(2) A Samaritan Chronicle. xixth–xxth century. Fol.

Persian MSS.—(1) Dīvān of Khāḳānī. Copied A.H. 664 (A.D. 1265); with an illuminated colophon at the end of Part i. stating that the book was incorporated in the library of Yaḥya b. Ḥāmid Khvārazmī in A.H. 594. Fol. This appears to be the oldest and most complete MS. of the Divan on record.

(2) A MS. containing 5 astronomical tracts by Nāṣir ul-Dīn Ṭūsī, Mubārak Ghauzī, Al-Amīr, etc. Copied A.H. 728 (A.D. 1327). 12°. Some of these tracts are extremely rare.

(3) A MS. containing:—(1) Lama'āt, a work on mystic love, in verse and prose, by Fakhr ul-Dīn 'Irāḳī; (2) two copies of an allegorical dialogue between Beauty, Grief, and Love, styled on the flyleaf Ḳiṣṣah i Yūsuf; (3) Kitāb ul-anābat, a manual of the mystic religious life, by Abu 'Alī al-Ḥasan b. Muḥ. al-Daḳḳāḳ; (4) Tuḥfat ul-mulūk, stories and maxims of sages; (5) the Ẓafar-nāmah of Buzurgmihr. Copied A.H. 761 (A.D. 1359). 4°. Only one other copy of No. 4 is otherwise known.

(4) 'Ibrat ul-nāẓirīn, a general history from the earliest times to the reign of Shāh-rukh, son of Tīmūr, A.H. 807, by Muḥ. b. Maḥmūd Fakhr ul-Dīn al-Fusanjī, called Masīḥī; composed in A.H. 838. xvth century. 4°. No other copy appears on record.

(5) Mihr va-vafā, an allegory in verse and prose; adapted from an original poem of Mīr 'Alī Shīr Navā'ī at the instance of Sultan Ḥusain Abu ul-Ghāzī Baiḳarā. Copied A.H. 999 (A.D. 1590). 4°. No other copy is on record.

(6) Dīvān of Nazīrī Kuhistānī. xvith century. Only one other copy of this Dīvān appears to be known, although some of the poems in it are quoted elsewhere.

(7) Bayān ul-vāḳi', a Ḥurūfī treatise. Copied A.H. 1059 (A.D. 1649). 8°. No other copy is on record.

(8) Anbiyā-nāmah, a poetical account of all the prophets, Caliphs, Imams, etc., from Adam to the Mahdī, by Ibrāhīm Jabartī. xviith century. 4°. This appears to be the only copy known.

(9) Kitāb man lā yaḥḍaruhu al-faḳīh, a translation of a treatise on Shiah jurisprudence by Ibn Bābavaih al-Ḳummī. xviith century. 4°.

(10) Dīvān of Khāḳānī, with commentary by ʻAbd ul-Vahhāb b. Muḥ. al-Ḥusain al-Ġhanāʼī. xviii-xixth century. Fol.

(11) Taʼrīḳh i kārnamah i Sadāsiv, a life of the Maratha chief Bhāu Sadāṣiv Rāu. Early xixth century. Fol.

(12) A MS. comprising a number of Bahai tracts (lavāʼiḥ): illuminated with unvans, marginal decorations, etc. Copied A.H. 1329 (A.D. 1911). 8°. *Presented by M. H. Dreyfus-Barney.*

Persian and Arabic MS.—A volume containing a number of Revelations communicated to Bahā Ullāh: illuminated. Copied A.D. 1902. 8°. *Presented by M. H. Dreyfus-Barney.*

Persian and Turkish MS.—(1) Iʻtiḳād-nāmah, a summary of the Moslem articles of faith in Persian verse, by Jāmī, with a Turkish translation by ʻAli b. Muḥ. Dukhānī Zādah Valī, written under Murād III. Copied A.H. 979 (A.D. 1571). 8°.

Turkish MSS.—(1) Naḳsh i khayāl, poems of Āẓarī Chelebi b.Aḥmad Chelebi. Copied A.H. 995 (A.D. 1587). 12°.

(2) A commentary on the Koran xii. 1–102 by Muḥ. b. Muḥ. Khādim (Altī Parmak). xviith century. 8°. No other copy seems to be on record.

(3) Inshāʼ, letters and other prose writings of Lāmiʻī Chelebi. xvii-xviiith century. 8°.

(4) Works of Laʻlī Zādah Saiyid ʻAbd ul-Bāḳī, and extracts from writings of ʻAbd Ullāh Efendi. Copied A.H. 1171 (A.D. 1757). 8°.

(5) Anīs ul-ʻārifīn, an ethical work by Faḳīr Ḥusain, called Hazār. xviiith century. 8°. Apparently very rare.

(6) A collection of anecdotes, compiled by ʻAzmī. xviiith century. 8°. Very rare.

(7) Kunh ul-akhbār, a history by Muṣṭafa b. Aḥmad (ʻĀlī). A detached volume, covering the reigns of Salīm I., Sulaimān, and Salīm II. xviiith century. Fol.

(8) Ẓafar-nāmah, a history of the Ottoman Empire down to A.H. 886, by Hamdam. xviiith century. Fol. Apparently very rare.

L. D. Barnett.

Department of Prints and Drawings.

I.—*Arrangement and Cataloguing, etc.*

The exhibition of drawings by masters of the British and Continental Schools, opened in June 1912, was closed in August, and the fittings of the exhibition gallery were taken down for alteration. The Students' Room was closed to visitors on September 6th, for the removal of the fittings to the extension building. The contents of the cases in that room were placed for temporary storage in the exhibition gallery, and the contents of the cases on the mezzanine floor were placed in the old Students' Room. The removal of the fittings and their re-erection in the extension building was approximately completed by the end of the year.

The preparation of a critical and descriptive Catalogue of the Dutch and Flemish Drawings has been continued, and progress has been made, especially, with the section dealing with Rembrandt and his school.

The preparation of a Catalogue of Portrait Drawings in the Department has been continued, and the preliminary notes have been completed so far as regards drawings of the French, German, and Italian schools.

Vol. IV. of the Catalogue of Engraved British Portraits is in the press, and the portion extending from S to V has been printed.

The card index to periodicals has been brought up to date.

All books of prints and books of reference recently acquired have been catalogued, labelled, and placed.

The work of writing slips for the titles of prints after English Masters, with a view to the preparation of a subject-index of that division of the collection, has been continued.

Additions to the Indexes of Artists of the French, Dutch and Flemish, and German schools have been printed with the object of bringing up to date the copies of those indexes intended for use in the Department.

The work of compiling a topographical slip-index of the English Drawings in the Department has been continued.

An index to the collection of London Views, arranged as a supplement to the Crace Collection, has been completed; the London topographical prints contained in books in the Department have been indexed, and progress has been made with an index of the general collection of English topographical prints.

The work of making an index to the artists represented in the Catalogue of Engraved British Portraits has been continued, and completed as far as the end of the letter O.

The engravings after Turner described in Vol. II. of Mr. W. G. Rawlinson's Catalogue have been arranged in the order described, and marked off in the Catalogue.

The reproductions of drawings by Dürer have been rearranged in an approximate chronological order.

The reproductions of drawings by Rembrandt have been rearranged in accordance with the collections to which the originals belong, and the prints after Rembrandt have also been rearranged and provided with references to the standard works on the master.

The work of making a duplicate set of index-slips to the Foreign Portraits has been continued.

Three thousand seven hundred and seventy-seven prints and drawings, recently acquired, have been incorporated with the divisions of the Collection to which they severally belong.

Registration.—Five thousand and seventy-four items have been entered in the Register of Acquisitions.

Stamping and Mounting.—Fourteen thousand three hundred and seventy-two drawings, prints, etc., recently acquired, have been impressed with the departmental stamp and references to the Register.

One hundred and eighty-four drawings have been prepared and mounted on sunk mounts, two hundred and five prints have been mounted either on sunk mounts or in the ordinary manner; nine hundred and eighty-three book-plates have been placed on paper mounts. All the above have been lettered with the artists' names and references to the Register and to catalogues.

The French book-plates in the Franks Collection have been impressed with a special stamp.

All the drawings from the Salting Collection have been mounted and placed.

Students.—The total number of visitors admitted to the Print Room during the year ending 31 December 1913 was 7,064. The decrease since 1912 is accounted for by the closing of the Students' Room after September 6th.

Photographing.—Three hundred and sixty-four applications were made for leave to photograph, and 1,942 photographs were taken.

II.—*Acquisitions.*

The total number of prints, drawings, etc., acquired during the year was 4,397,* of which the following are the most important:—

Italian School.

Drawings.

Anonymous, Roman School, early 17th century. Four allegorical female figures; grisaille.

* This number does not include the separate items of the collection of wood-engravings by the Brothers Dalziel (*below*, p. 64), each volume of which is here counted as a unit.

Bernini, Giovanni Lorenzo. Design for the monument of an ecclesiastic, pen and bistre and bistre wash, from the Rogers Collection.

Carracci, Annibale. The Woman taken in adultery; pen and bistre, heightened with white; from the Heseltine Collection. *Presented by the Viscount Iveagh.*

Vinci, Leonardo da. Study of an angel kneeling among rushes; pen and ink. Study of a girl holding a child; pen and ink.

Engravings.

Nielli, School of Bologna, 15th century. Three women dancing, Duchesne 287. Arms of the Bentivoglio family, Dutuit 606. From the collection of Dr. John Gott, Bishop of Truro.

GERMAN SCHOOL.

Drawings.

Anonymous, South German School about 1530. Landscape, pen and ink.

Beham, Hans Sebald. Poverty seated on the train of riches; pen and ink.

Lindmayer, Daniel. Heraldic drawing, signed and dated 1596; pen and ink. *Presented by Campbell Dodgson, Esq.*

Major, Isaac. Elijah fed by ravens in the desert, signed and dated 1618; pen and ink.

Engravings.

C. G., The Monogrammist (Nagler, Monogr. II., p. 23). Six of a series of the Seven Planets, the seventh being already in the Department. *Presented by J. P. Heseltine, Esq.*

Gmelin, W. F. The Grotto of Neptune at Tivoli, proof before letters.

Engraving of Ornament.

Flindt, Paul. Design for a silver vessel, from the "Visierungsbuch," 1593.

Etchings.

Cossmann, Alfred. Pinzgauerin.

Hirschvogel, Augustin. David with the Head of Goliath. The Entry of Christ into Jerusalem.

Menzel, Adolf von. Radierversuche (1844), set of seven. *Presented by J. P. Heseltine, Esq.*

Paeschke, Paul. Flugplatz. *Presented by Campbell Dodgson, Esq.*

Svabinsky, Max. Grossmutter.

Welti, Albert. Walpurgisnacht. Portrait of F. Rose. *Presented by Campbell Dodgson, Esq.*

Zeising, Walther. Jahrmarkt in Dresden.

Lithographs.

Boehle, Fritz. Stall I. Ritter, proof; also the published state, reduced in size.

Brauerei Binding, Kalender 1910, 1911, 1912 (proofs). Klimsch's Druckerei, Kalender, 1909, 1910, 1911, 1912 (proofs). Fuhrmann I. Tränke, Fuhrmann II. Stall II. Leinreiter. *Presented by Campell Dodgson, Esq.*

Menzel, Adolf von. Zwölf Neujahrswunsche. *Presented by J. P. Heseltine, Esq.*

Woodcuts.

Anonymous, 15th century. The Annunciation. Dotted print, undescribed.

Anonymous, 15th century. St. John the Baptist, Schreiber 1514. St. John the Evangelist, S. 1523. From the Huth Collection. *Presented by J. P. Heseltine, Esq.*

Anonymous, 15th century. Christ on the Cross (Scheiber, "Christus am Kreuz," No. 33) from a Missal printed by G. Stuchs at Nuremberg between 1494 and 1499.

Baldung, Hans. St. Jerome, 1511, B. 34.

Cranach, Lucas. The Apostles, set of thirteen; copies.

Dürer, Albrecht. The Rhinoceros, B. 136; fine impression in chiaroscuro.

Schaüfelein, Hans. The Virgin and St. Joseph, B. 11.

Weiditz, Hans. Twenty-three illustrations to "Celestina," printed by Grimm and Wirsung, Augsburg, 1520. *Presented by Frau Olga Julia Wegener.* Two illustrations to Faber, "Oratio funebris in depositione Maximiliani," Augsburg, 1519.

Menzel, Adolf von. Fifteen India proofs of illustrations to the works of Frederick the Great. Seven other proofs. *Presented by J. P. Heseltine, Esq.*

Stoitzner, Josef. Aus dem Tauern, Hochgebirge im Winter, woodcuts printed in colours.

Schools of the Netherlands.

Drawings.

Anonymous, early sixteenth century. Men setting up an idol or statue on a pillar; round drawing in pen and ink.

Diepenbeke, Abraham von. A bishop blessing the people: black chalk and bistre wash, heightened with white.

Klotz, Valentyn (or Josua de Grave ?). Two views of Grave on the Maas; pen and sepia and water-colour. From the Heseltine Collection. *Presented by Walter Morrison, Esq.*

Swart, Jan. Scenes from the Story of Tobit. Pen and Indian ink wash.

Velde, Esaias van de. Landscape with figures, signed and dated 1623. Black chalk and bistre wash. From the Heseltine Collection. *Presented by the Viscount Iveagh.*

Engravings.

Hecke, Abraham. Shadrach, Meschech and Abed-nego in the fiery furnace.

Claessens, L. A. The Descent from the Cross, after Rubens.

Etchings.

Angeren, A. Derkzen van. On the Maas. A Mill in the country. Boats on the Maas.

Cock, Hieronymus. Landscape with the Good Samaritan. Landscape with Mercury and Argus, 1558.

Jongkind, Jan Barthold. Démolitions de la Rue des Francs-Bourgeois, L.D., 18 III. Canal près de Rotterdam, Hiver, L.D. 19 III.

Lithographs.

Toorop, Jan. Political cartoon. *Presented by A. G. B. Russell, Esq.*

Veth, Jan. Thirty-two portraits, including those of August Bebel, Wilhelm Bode, Josef Israels, J. Ph. van der Kellen, William Maris, Adolf von Menzel, Prof. Tilanus, R. W. P. de Vries, and Paul Verlaine. *Presented by the Artist.*

Prints arranged to illustrate the Works of Masters.

Rubens, Peter Paul. Elizabeth of Austria, etched by J. Vyboud. *Presented by Messrs. Frost and Reed.*

French School.

Drawings.

Callot, Jacques. Sketch book with forty-eight drawings, in water-colour, red and black chalk, and pen and ink, recording a cruise in the Mediterranean in 1620. *Presented by Alfred de Pass, Esq., through the National Art-Collections Fund.*

Géricault, Théodore. Sketch of a cavalry skirmish; pencil and Indian ink wash.

Gillot, Claude. Mythological subject; red chalk.

Greuze, Jean Baptiste. Head of an old man (the father in "L'Accordée de Mariage" in the Louvre); black and red chalk with Indian ink wash.

Poussin, Nicolas. Mythological Group. Pen and bistre wash. From the Heseltine Collection. *Presented by the Viscount Iveagh.*

Engravings.

Beauvarlet, Jacques Firmin. The History of Esther, seven engravings after J. F. de Troy, proofs before letters. From the Gott Collection.

Boyvin, René. Six pairs of masks, after G. Arcimboldo. *Presented by Sir Harry Wilson, K.C.M.G.*

Gaillard, Claude Ferdinand. Le Crépuscule, after Michelangelo, first state. *Presented by Campbell Dodgson, Esq.*

Landry, P. L'Opéra du Village.

Etchings.

Appian, Adolphe. Cabanes de Pêcheurs. Plage de Collioure.

Bracquemond, Félix. Le Pêcheur à l'Epervier, Ber. 189 II. Le bord de l'Île Seguin. B. 191 I. and II.

Corot, Camille. Souvenir des fortifications de Douai, L.D. 12, Le Dôme Florentin, L.D. 13.

Jacque, Charles. Forge, G. 256, III. Auberge, G. 257. L'Abreuvoir, G. 259 II. Paysage, G. 267 I.

Lalanne, Maxime. Mantes la Jolie, after Corot; three trial proofs. *Presented by Campbell Dodgson, Esq.*

Lepère, Auguste. La Seine au Pont National, first state. *Presented by Miss E. P. McGhee.*

Lunois, Alexandre. Fifty-two illustrations, each in two states, to Hans Andersen's "Récits et Aventures." *Presented by Campbell Dodgson, Esq.*

Vyboud, Jean. The Laughing Cavalier, after F. Hals. *Presented by Messrs. Frost and Reed.*

Lithographs.

Belleroche, A. Still life. Young lady in a hat. *Presented by Campbell Dodgson, Esq.*

Carrière, Eugène. La Consolation, L.D. 42. Marguerite Carrière, L.D. 43.

Chéret, Jules. Three lithographs printed in colours. *Presented by Campbell Dodgson, Esq.*

Corot, Camille. Souvenir de Sologne, L.D. 34.

Daumier, Henri. L'Histoire Ancienne, series of fifty caricatures, H. & D. 1901–1950. *Presented by H. van den Bergh, Esq., through the National Art-Collections Fund.* Les Canotiers Parisiens, series of twenty caricatures, H. & D. 969–988. *Presented by the National Art-Collections Fund.*

Delacroix, Eugène. Le Lion de l'Atlas, L.D. 79 II.

Forain, Jules Louis. Affiche pour La Vie de Bohème, G. 88. Affiches (3) pour le Salon des Humoristes, 1912. Affiche, "Servir," March, 1913. *Presented by Campbell Dodgson, Esq.*

Gavarni, Paul. Souvenirs de Carnaval, set of six lithographs and cover. Par-ci, par-là, set of fifty. Physionomies Parisiennes, set of fifty.

Isabey, Jean Baptiste. Portraits of A. Dubois, Sophie Gail, and Évariste Parny.

Manet, Edouard. The Execution of Maximilian, Emperor of Mexico. M.–N. 79 II. *Presented by Charles Ricketts, Esq., and Charles Shannon, Esq., A.R.A.*

Puvis de Chavannes, Pierre. Le pauvre Pêcheur.

Steinlen, Théodore. Portrait of the Artist. Les Veuves de Courrières.

Woodcuts.

Denis, Maurice (after). Six illustrations to "L'Imitation de Jésus-Christ."

Deslignères, André. Old house at Montmartre; original woodcut in colours. *Presented by M. Eugène Rodrigues.*

Lepère, Auguste. La Cathédrale de Rouen; final state. *Presented by Miss E. P. McGhee.*

Lepère, Suzanne. Thirty-three vignettes designed by A. Lunois. *Presented by Campbell Dodgson, Esq.*

Prints arranged to illustrate the Works of Masters.

Corot, Camille. Mantes la Jolie, etching by M. Lalanne. Twelve landscapes lithographed by Emile Vernier. *Presented by Campbell Dodgson, Esq.*

Russian School.

Etchings.

Polunin, Vladimir. Arches of the Deanery, Winchester. Chamber Court, Winchester College. *Presented by the Artist.*

Scandinavian Schools.

Etchings.

Zorn, Anders. "Frightened."

Spanish School.

Drawing.

Lucas, Eugenio. Group of figures. Indian ink wash.

American School.

Etchings.

Hurley, E. T. Fourteen Etchings. *Presented by the Artist.*

Pennell, Joseph. St. Paul Building, New York; touched proof. *Presented by Miss E. P. McGhee.*

Lithographs.

Hamilton, J. McLure. Portrait of an American Catholic bishop; proof heightened with gold. *Presented by the Artist.* Sketch, No. 2. Sketch, No. 3. Sketch portrait of H.M. George V.

Pennell, Joseph. Nineteen lithographs, including four New York subjects, eight of the Grand Canyon, Arizona, two of the Yosemite Valley, the rebuilding of the Campanile of St. Mark's, and the New Bay of Baiae. *Presented by the Artist.* Set of twenty-six lithographs illustrating the construction of the Panama Canal.

Whistler, James McNeill. Portrait of Walter Sickert, Way 79.

Woodcuts.

Nine specimens of wood-engravings by modern artists, including Thomas Johnson, R. G. Tietze, J. H. E. Whitney, H. Wolf, and others, in proof state.

Foreign Artists working in England.

Drawings.

Dyck, Anthony van. Bacchanalian Group; pen and sepia with indigo wash. From the Heseltine Collection. *Presented by the Viscount Iveagh.*

Liotard, Jean Étienne. A Greek woman, 1739; black and red chalk.

Engravings.

Le Blon, Jacques Christophe. The Temptation of Christ, after Carlo Maratti; mezzotint in colours, very rare, only one other impression being known; this is, apparently, a trial proof in two colours only.

Etchings.

Hollar, Wenzel. The Four Seasons, P. 610–13; first state.

English School.

Drawings.

Atkinson, J. A. Watchman. Punch and Judy Show. Water-colours.

Beechey, Sir William, R.A. Pencil study for a portrait of a lady.

Blake, William. Figure composition; Indian ink.

Bone, Muirhead. Miller Place, Glasgow; pencil study for a dry-point. *Presented by the Artist.*

Bowyer, Robert. Portrait of himself; water-colour.

Burges, William, A.R.A. Woman's head. Two studies of costume; pencil. *Presented by S. Vacher, Esq.*

Clennell, Luke. Portraits of Lord Hill and Alderman Magnay; water-colour.

Clint, George, A.R.A. Portrait of R. Clint, sculptor; water-colour.

Conder, Charles. Pan; black and red chalk, 1904.

Constable, John, R.A. View of Loudon Mill, near Campsea Ashe, Suffolk; pen and ink and water-colour. *Presented by S. R. Thompson, Esq., F.R.C.S.*

Copley, John Singleton, R.A. Three studies for the Siege of Gibraltar. Two studies for the Death of Chatham. Sketch of one of the daughters of George III. Black and white chalk.

De Wilde, Samuel. Portrait of Charles Kemble. Pencil, red chalk and water-colour.

De Wint, Peter. Eighty-five sketches of landscape and studies of trees; pencil and water-colour. *Presented by Miss Tatlock.*

Etty, William, R.A. An Encounter; wash drawing made at a meeting of the Sketching Club.

Fielding, Copley. A Calm. Ben Venue. Downs between Lewes and Brighton, 1833; water-colour.

Gastineau, Henry. Mountain landscape. Views of Ullswater; water-colour.

Gibbs, James. Design for a memorial column to Queen Anne in the Strand, Design for three monuments, including that of Ben Jonson. Four decorative and figure subjects. Pen and ink and Indian ink wash.

Goodwin, Albert. Nine drawings, including views of Engelberg, Lauterbrunnen, Naples, Hastings, and Dartmoor, and a study of a young walnut tree; water-colour and pencil. *Presented by Miss E. P. McGhee.*

Hamilton, William, R.A. Portrait of Captain Cook; black and red chalk.

Harlow, George Henry. Portrait of Miss Tickell. Portrait of a Gentleman ; black and red chalk.

Hayter, John. Portrait of Malibran ; chalk and water-colour. Portrait of Mrs. Siddons, 1826 ; black, white and red chalk.

Heath, James. A concert ; water-colour.

Hilton, William, R.A. One hundred sketches of figure subjects ; pencil, chalk, and water-colour. *Presented by Miss Tatlock.*

Holland, James. Clifton Baths, Margate ; water-colour. Portrait of a young lady in blue dress ; water-colour.

Holmes, Charles John. Soulby Fell ; water-colour. Cobham ; charcoal and water-colour. *Presented by the Artist.*

Johnson, Ernest Borough. Toil ; charcoal. *Presented by Dr. Mark D'Albon.* Study of a man's head ; pencil. *Presented by the Artist.*

Kay, Joseph. The Arch of Trajan at Ancona ; water-colour.

Knight, John Prescott, R.A. Study of a boy's head ; water-colour.

Lawrence, Sir Thomas, P.R.A. Portrait of William Godwin ; red and black chalk.

Lee, Frederick Richard, R.A. Woodland scene ; water-colour.

Lemon, Arthur. Ploughing ; water-colour. Circus riders ; monotype.

Lonsdale, James. Portrait of Susan Beckford, afterwards Duchess of Hamilton ; red and black chalk.

Nasmyth, Patrick. Three landscape sketches ; pencil. Barn with trees ; water-colour.

Palmer, Samuel. Windmill among trees ; sepia. Cottage ; sepia. Rising with the lark, study for the etching ; sepia.

Penley, Aaron. Rydal Water, 1846 ; pencil. Shakespeare's Cliff, Dover, 1838 ; pencil. At Inverannan, Glentalloch, 1856 ; water-colour. Four studies of trees ; water-colour. *Presented by Dr. Steegmann.*

Reynolds, Sir Joshua, P.R.A. Study of a portrait of a lady ; pen and sepia.

Richmond, George, R.A. Study of children, 1869 ; pen and ink. Girl in classical costume ; pencil. Study of male figure ; pencil. Various studies ; pen and ink.

Rothenstein, William. Portrait of Rabindra Nath Tagore ; pencil. *Presented by the Artist.*

Shepherd, George. Dunstable Downs, 1813 ; water-colour.

Sickert, Walter. The Eldorado, Paris ; black and white chalk. *Presented by the Artist.* St. Jacques, Dieppe ; pen

and Indian ink and sepia wash. Nude study; black and white chalk on green paper. *Presented by Miss Sylvia Gosse.*

Stanfield, Clarkson. Stormy weather; water-colour.

Thornhill, Sir James. Seven sketches for the paintings of the life of St. Paul in St. Paul's Cathedral.

Vincent, George. Trees and figures, 1823; pencil.

Webster, John, R.A. Boys leaving school; pen and ink.

Wright, John William. Summer and Winter costumes in 1824; water-colour.

Engravings.

Blake, William. Job (1793) and Ezekiel (1794). Original engravings, Russell, Nos. 12 and 13.

Gaskell, Percival. Five original mezzotints of landscape subjects. *Presented by the Artist.*

Gibbs, James (after). Thirty-three shields and compartments for monumental inscriptions.

Kronheim & Co. The Wine-tasters. Proof, printed in colours by the Baxter process.

Linnell, J. (after). Four designs for vases, engraved by G. Smith (*c.* 1760).

Lupton, Thomas Goff. Eight proofs of engravings, &c. Ruskin's "Specimens of the Architecture of Venice," with three in the etched state, the work of T. S. Boys. Junction of Severn and Wye, after J. M. W. Turner, R.A., unfinished mezzotint on steel. *Presented by W. G. Rawlinson, Esq.*

Reynolds, Samuel William. Le petit Jour, mezzotint after Freudeberg, Whitman 398. Le Restaurant, mezzotint after Lavreince, W. 399. Les Joueurs, after Charlet, W. 342. Lady at her devotions, after J. M. Granet, W. 388.

Short, Sir Frank, R.A., P.R.E. A selection of mezzotints. Portrait of Tennyson, after Watts, Strange 139. "When the weary moon was on the wane," S. 175. "A slant of light in Polperro Harbour," S. 227. Shap Fells, after P. Dewint, S. 232. Portrait of Tennyson, after Watts, S. 256, trial proof. A Yorkshire Dell, after Turner, S. 264, with the preliminary etching. A woody landscape, after P. Dewint, S. 284. The Blue Rigi, after Turner, with the preliminary etching. Etching for a mezzotint, not yet published, after Turner. The original plate of the mezzotint of the "Via Mala," after Turner. *Presented by the Artist.*

The West's good night to the East, S. 113. Diana and Endymion, after Watts, S. 138. Love and Death, after Watts, S. 234. *Presented by Miss E. P. McGhee.*

Simmons, William Henry. The Good Shepherd, after W. C. T. Dobson, R.A.

Turner, J. M. W., R.A. (after). Four rare engraver's proofs of unpublished plates of the Liber Studiorum: Sheepwashing,

Windsor, Rawlinson 74. Crowhurst, Sussex, R. 76. Swiss Bridge, Mont St. Gothard, R. 78. Stork and Aqueduct, R. 83. Also modern impressions of the following: Calm, R. 44. Ploughing, Eton, R. 7B, and the Felucca, R. 82. *Presented by W. G. Rawlinson, Esq.*

Walker, William. Four progress proofs of the portrait of Sir Walter Scott, after Raeburn. *Presented by Messrs. F. B. Daniell and Son.*

Etchings.

Baskett, C. H. Eleven original aquatints of landscape subjects. *Presented by Messrs. P. & D. Colnaghi & Obach.*

Bone, Muirhead. Tontine Gates, Glasgow; dry-point, first state. *Presented by Campbell Dodgson, Esq.*

Brangwyn, Frank, A.R.A. Thirty-four original etchings, including: London Bridge, No. 3. The Storm. Breaking-up the "Hannibal." Sawyers. Old Houses, Ghent. The Rialto, Venice. Santa Maria from the Street. Windmill, Dixmuden. The Feast of Lazarus. Church of Notre Dame, Eu. Old Houses, St. Cirq. Il Traghetto. Valentré Bridge, Cahors. A Mosque, Constantinople. Breaking-up of the "Duncan." The Crucifixion. Browning's House, Venice. The Tower Bridge. Abbey of St. Léonard, L'Île Bouchard. *Presented by W. Tinker, Esq.* Meat Market, Bruges. Haycart. Cornfield. Santa Maria. *Presented by Campbell Dodgson, Esq.*

Burne-Jones, Sir Edward. The Ring given to Venus; dry-point.

Cameron, David Young, A.R.A. Nithsdale, The Esk, Aquamanile. *Presented by an anonymous donor.*

Dawson, Nelson. Yacht ashore, Whitby. Robin Hood's Bay. Turning to Windward. Eight soft-ground etchings of coast scenes and shipping. Head wind up Channel; colour-print. Spanish Schooner entering Boulogne; key-plate in soft ground, proofs from the three colour-plates, and finished proof. Marguerite daises; soft-ground etching and colour-print.

Dawson, Edith Brearey (Mrs. Nelson Dawson). Three colour prints: the Sussex Downs. Siberian crab apples. Village in the Downs.

Gaskell, Percival. Six etchings: Neuschwanstein. Hindhead. Crowland Abbey. S. Maria del Sasso, Locarno. Ploughing in Purbeck. The Mouth of the Wye. Five aquatints: Poole Harbour. Twilight in an Alpine Valley. The noiseless music of the night. Evening, Derwentwater. Dissolving Mists. *Presented by the Artist.*

Hardie, Martin. Net poles, Studland Bay. The old harbour light, N. Queensferry. A bit of old Portsmouth. The far Prospect. A grey day, Newhaven. The boat yard, Rye. River Meadows, Wareham. *Presented by the Artist.*

Hankey, William Lee. Six etchings: Le Retour. Les Ouvriers. In the hill country. Boulogne Harbour. Staple Inn. Old Court, E.C. Seven dry-points: The Spinning Wheel. Gran' Mère. Le Petit. The Monk and the Crucifix. The Prayer; two states. The Cave. The Quiet Land; aquatint. Twenty-four colour prints, including five progress proofs of "The Easter Egg," two of "The Patchwork Quilt," and nine of "Le Petit." Also: Dreaming. The Virgin and Child. The Cave Maiden. Warwick's Lane. Green and Black. The Fish Market, Étaples.

Hartley, Alfred. Six aquatints: Mooring post. Lake of Como. The Bridge. At low tide. At the boat-builders'. The capstan (in colours). Harvesting (in colours). *Presented by the Artist.*

Hole, William. Two after J. F. Millet: The Wood Sawyer. The Guardian of the Flock. *Presented by W. B. Paterson, Esq.*

Laing, Francis James. Salmon nets. The Schooner in the roads. From Dowine Mount. Departure of a Dundee Whaler. Iona. *Presented by Campbell Dodgson, Esq.*

Lumsden, Ernest S. En voyage, Tokyo, No. 1 and No. 2. Five street scenes at Victoria, British Columbia. *Presented by the Artist.*

McBey, James. Set of thirteen etchings of Morocco. *Presented by the Artist.*

Osborne, Malcolm. Timber Haulers, after C. W. Furse, A.R.A. *Presented by the Art Union of London.*

Robins, William Palmer. The Canal. Old Barn. Canal near Volendam. Rain Storm near Volendam. *Presented by Messrs. P. and D. Colnaghi and Obach.*

Short, Sir Frank, R.A., P.R.E. Wrought Nails, Strange 62. The Solway at Midday, S. 144. Volendam, S. 173. The Dijk Bell, S. 183. Strolling Players, Lydd, S. 376. The head of Langston harbour, S. 281. The Street, Whitstable. *Presented by the Artist.*

Strang, Ian. The Walls of Segovia. *Presented by Campbell Dodgson, Esq.*

Strang, William, A.R.A. The Mourners. *Presented by W. B. Paterson, Esq.* Head of a Peasant. The Salvation Army. *Presented by Campbell Dodgson, Esq.* Spanish etchings (set of seven in portfolio).

Synge, Edward Millington. Twenty-two etchings (landscapes, views in Holland, Italy, &c.). *Presented by Mrs. E. M. Synge.* Dordrecht, Pont Neuf. *Presented by Messrs. James Connell and Son.* Notre Dame. Courtyard, Rue St. Jacques. Villa d'Este, Tivoli. *Presented by Campbell Dodgson, Esq.* Courtyard, Venice. Ponte Foscari. Wheelwright's Shop. Old Chestnut Trees. Purchased.

Turner, J. M. W., R.A. Sand-bank with gipsies, aquatint; Unpublished Liber Studiorum plate, R. 91. One of the two

impressions known to exist of the second state ; the first state, unique, belonged already to the Museum.

Wright, John. The Pond. Canal at Sluys. Maria Castelli: The Gondola. The Hautboy. Carabinieri. The Pond (drypoint). Long Water. The Dark Pool. The Rialto. Venice (aquatint).

Lithographs.

Bewick, William. Head of a Man. *Presented by Campbell Dodgson, Esq.*

Brangwyn, Frank, A.R.A. Tapping a furnace. Steel making. The Feast of Lazarus.

Conder, Charles. The Salute. *Presented by Mrs. A. Cecil Lawson.*

Jackson, F. Ernest. Roses.

Johnson, Ernest Borough. Aliens. *Presented by the Artist.*

Lawson, James Kerr. A windmill in Kent. Two scenes in Morocco. *Presented by the Artist.*

Pryse, Gerald Spencer. Destitution (in colours). Bathers by the Atlantic (unique trial proof). Oceanides. The Meet. Point-to-Point Races. Elms at Easton Grey. In the Butts. Muriel.

Ravenhill, Leonard. Five studies of a baby. *Presented by Campbell Dodgson, Esq.*

Rothenstein, William. Sketches, including a portrait of T. R. Way, the artist's first attempt at lithography, 1893. *Presented by Campbell Dodgson, Esq.*

Shannon, Charles, A.R.A. Four unpublished lithographs. *Presented by the Artist.* The Messenger, R. 19.

Sickert, Walter. Head of a girl. Head of a woman in furs. *Presented by Campbell Dodgson, Esq.*

Steer, P. Wilson. Head of Richard le Gallienne. *Presented by Campbell Dodgson, Esq.*

Way, Thomas R. Eighty-seven lithographs, including twenty-two illustrations in black and five in colour to "The Thames from Chelsea to the Nore," twenty-four subjects, of which eighteen are in colour, after Whistler, and others both in colour and in black. *Presented by Mrs. T. R. Way.*

Woodcuts.

Bewick, Thomas. Two wood-blocks engraved with vignettes for "The Fisher's Garland." *Presented by Alfred de Pass, Esq.*

Dodd, Francis. Animal alphabet. *Presented by the Artist.*

Ricketts, Charles. Proof frontispiece to John Gray's "Spiritual Poems." Two proofs of illustrations to Apuleius.

Proof of Title-border to the Race of Leaves, with the original drawing. Five trial proofs of woodcuts (three subjects) after Alphonse Legros. *Presented by the Artist.*

Ricketts, Charles, and Shannon, Charles. Thirty-one trial proofs on thin paper, and nine proofs on old paper, of illustrations to "Daphnis and Chloes." *Presented by the Artists.*

Tenniel, Sir John. Thirty-two *Punch* cartoons in proof state.

Thompson, John. Set of twenty-six vignettes to Fairfax's Tasso, 1817; proofs.

Verpilleux, Émile. The Tower Bridge. The North Side of St. Paul's. In colours. *Presented by Messrs. P. and D. Colnaghi and Obach.*

Prints arranged to illustrate the Works of Masters.

Byron, F. G. Breakfast at Breteuil; aquatint by Lewis, coloured.

Cooper, T. Sidney, R.A. The Monarch of the Meadows, etched by T. George Cooper.

Frith, William Powell, R.A. The Railway Station, engraved by Francis Holl; Salon d'Or, engraved by Charles G. Lewis.

Goodall, Frederick, R.A. Old Maid, engraved by Charles A. Tomkins.

Herbert, J. R., R.A. Christ and the Woman of Samaria, engraved by S. Bellin.

Herring, J. F. Farmyard, engraved by J. B. Pratt.

Hunt, W. Holman. The Scape Goat, engraved by C. Mottram.

Landseer, Sir Edwin, R.A. Highland Lassie, engraved by J. Outrim. The Drive, engraved by C. G. Lewis.

Lawrence, Sir Thomas, P.R.A. Miss Croker. Elizabeth, Countess Grosvenor. Mezzotints in colour, engraved by E. Jowett.

New, Edmund Hort. Trinity College, Oxford. *Presented by the Artist.*

Rowlandson, Thomas. Nine caricatures, aquatints published by Reeves and Jones, 1808–9. *Presented by H. Van den Bergh, Esq., through the National Art-Collections Fund.*

Sant, James, R.A. The Infant Timothy, engraved by Samuel Cousins.

Solomon, Abraham. Waiting for the Verdict. The Acquittal. Engraved by W. H. Simmons.

PORTRAITS.

Foreign.

Gluck, Christoph. Etching by J. Groh after J. S. Duplessis.

Kaunitz, Wenceslaus Anton Dominic. Engraving by J. Schmutzer after Hagenauer, 1781.

Paganini, Niccolo. Mezzotint by H. Dawe.

English.

Carlyle, Thomas. Set of six etchings by H. Helmick, 1881.

Dawson, John, of Sedbergh. Mezzotint by W. W. Barney after J. Allen.

Haden, Sir Francis Seymour, P.R.E. Mezzotint by Sir Frank Short, R.A., after G. P. Jacomb Hood. *Presented by Miss E. P. McGhee.*

Hood, Sir Samuel. Mezzotint by G. Clint after J. Hoppner.

James, Montagu Rhodes. Photogravure after W. Strang, A.R.A., in colours.

Manners, Thomas, 1st Baron. Mezzotint by S. W. Reynolds after T. C. Thompson, W. 193 ; before all letters.

Raikes, Thomas. Mezzotint by C. H. Hodges after G. Romney, R.A.

Russell, Samuel Thomas, actor. Stipple by Thomson after Wageman, 1819 ; touched proof.

Tennyson, Alfred, Lord. Mezzotint by Sir F. Short after G. F. Watts, R.A.

Wright, W. Aldis. Photogravure after W. Strang, A.R.A., in colours.

Book-plates.

Badeley, H. J. F. Sixteen book-plates. *Presented by the Artist.*

Cameron, D. Y., A.R.A. Plate of Harris B. Dick. *Presented by H. B. Dick, Esq.* Plate of Dr. H. Nazeby Harrington. *Presented by Dr. Harrington.*

Eve, Geo. W. Thirty-two etched plates, including a set of three for King Edward VII. *Presented by the Artist.*

Sherborn, Charles William. Ernestina di Montagliari, first state, rare. Five unfinished plates. *Presented by C. Davies Sherborn, Esq.*

Seven hundred and seventy-four modern book-plates, of which the majority (490) are German. *Presented by Miss A. M. Cust.*

Collections and Sets.

One hundred and thirty-one proofs by English engravers of the early nineteenth century, chiefly after P. Dewint and W. Hilton, R.A. *Presented by Miss Tatlock.*

Twenty-seven publications of the Art Union of London, including five engravings after W. P. Frith, R.A. *Presented by The Art Union of London.*

Sixty proof engravings before letters, chiefly after English artists, from "Modern Art," edited by James Dafforne, 1886.

A complete set of wood engravings by the Brothers Dalziel, arranged in chronological order, from 1839 to 1893, in forty-nine volumes, comprising upwards of fifty-four thousand proofs.

Thirty-one reproductions in colour, published by the Medici Society. *Presented by the Medici Society, Ltd.*

Books of Prints and Books of Reference.

Ainslie, Sir Robert. Views of Turkey, 24 aquatint plates. Views in Palestine, eight aquatint plates after Luigi Mayer, 1812.

Brangwyn, Frank. Catalogue of etchings by, published by the Fine Art Society.

Caw, J. L. Scottish Portraits.

Constable, John. Various subjects of landscape, engraved by David Lucas. Six parts in the original wrappers, presentation copy to P. Dewint. *Presented by Miss Tatlock.*

Guérin, Marcel. Forain Aquafortiste.

Hülsen and Egger. Die Römischen Skizzenbücher von Martin van Heemskerk, Bd. I. *Presented by Herr Julius Bard.*

Katalog der Ausstellung, Friedrich der Grosse in der Kunst.

Kurzwelly, J. Das Bildnis in Leipzig.

Lear, Edward. Views in the Ionian Islands, 1863 (20 lithographs).

Lepère, Auguste. Cinquante Croquis.

Liebermann, Max. Holländisches Skizzenbuch.

L'Image, 1896–7, illustrated with wood-engravings by A. Lepère and others.

Moselly, E. La Charrue d'Érable. Illustrated with wood-engravings, printed in colours, by Lucien Pissarro. *Presented by Le Livre Contemporain.*

Rovinski, Dmitri. L'Oeuvre Gravé d'Adrien van Ostade.

Zocchi, Giuseppe. Vedute delle Ville, e d'altri Luoghi della Toscana (50 plates), Firenze, 1757.

Campbell Dodgson.

Sub-Department of Oriental Prints and Drawings.

I.—Arrangement and Cataloguing, &c.

The large Chinese painting by Lin Liang, recently presented, has been placed on exhibition in the King's Library, on a screen. A painting by Sesshū has been removed to make room for it.

The reproduction in colour-woodcut of the painting by Ku K'ai-chih in the collection has been published, with a descriptive and critical text.

The final revision and preparation for press of the Catalogue of Japanese Woodcuts has been taken in hand. The chronological arrangement of the prints by each master has been revised, and descriptions of all recent acquisitions incorporated in their respective places. The catalogue has been set up in type as far as the School of Utamaro, and sheets B—K have been printed off.

Four Chinese paintings, recently acquired, have been catalogued.

The Arthur Morrison Collection of Japanese and Chinese paintings has been temporarily arranged in boxes, according to the several schools.

An index, in slip form, of the Oriental Artists represented in the Collection, has been begun.

The nineteen volumes of "Selected Relics of Japanese Art," edited by Tajima, have been indexed.

Two hundred and twenty-one prints, paintings, &c., recently acquired, have been incorporated with the divisions of the collection to which they severally belong.

All books of prints and books of reference, recently acquired, have been catalogued, labelled, and placed.

Registration.—Eight hundred and eleven items have been entered in the Register of Acquisitions.

Stamping and Mounting.—Seventy-eight prints, paintings, &c., recently acquired, have been impressed with the departmental stamp, and references to the Register.

Two large Chinese paintings, recently acquired, have been cleaned, repaired, mounted, and framed.

Thirteen Chinese and Japanese paintings have been cleaned, repaired, and remounted.

Two sets of six Japanese paintings of the early Tosa School, have been mounted on sixfold screens.

Four Indian drawings have been mounted on sunk mounts.

Thirty-four paintings from the Stein Collection have been cleaned, repaired, and mounted on stretchers ; and five of these have been framed.

Two paintings from the same collection have been mounted as *kakemono.*

II.—Acquisitions.

The first year of the newly-constituted sub-department has been marked by an acquisition of the highest value and importance; the gift, namely, by Sir William Gwynne-Evans, Bart., of the entire collection of Japanese and Chinese paintings formed by Mr. Arthur Morrison, and one of the finest of its kind in Europe.

The total number of paintings, prints, &c., acquired during the year was 1,013, of which the following are the most important.

The Morrison Collection.

1.—Japanese Paintings.

Five hundred and eighty-nine in all, divided among the various schools as follows :—

Early Buddhist :

Six paintings, including beautiful and very ancient works, attributed to Kanaoka (9th and 10th centuries) and to Yeshin Sōzu (11th century), besides important examples of the Kosé School.

Tosa School :

Forty-six paintings, including, besides anonymous works of early periods, examples of Takuma Chōga (12th century); Nobuzane (13th century); Mitsuhide (14th century); Yukihide (15th century); Rinken (16th century); Mitsuoki (17th century); Totsugen (18th century); and other masters.

Chinese School :

Nineteen paintings, including exampies by Chō Densu (14th century); Sōga Shūbun, an excessively rare master, Shūbun the Priest, Nōami, Sōami, Sōga Jasoku, and Oguri Sōtan (all of the 15th century); Sōga Chokuan, Shōkwadō, &c.

Sesshu School.

Fifteen paintings and painted screens, including five examples by Sesshiu (15th century) and works by Shūgetsu, Sesson, Yamada Dōan, Unkoku Tōgan, and other early masters.

Kano School.

One hundred and thirty-eight paintings and screens, including two examples by Masanobu and four by Motonobu, the founders of the school (15th century); three examples by Yeitoku and thirteen by Sanraku (16th century); eighteen by Tanyu, some of exceptional quality and importance, four by Naonobu, and seven by Yasunobu (17th century); ten by Tsunenobu, two by Tōun, and seven by Hanabusa Itchō (17th–18th centuries); besides representative specimens of minor masters.

KORIN SCHOOL.

Twenty-five paintings and screens, including a screen by Kōyetsu, a master of extreme rarity and distinction; two screens and five paintings by Sōtatsu; one screen and five paintings by Kōrin; one painting by Kenzan; a pair of screens and two paintings by Watanabé Shikō; and two paintings by Hōitsu.

UKIYO-YÉ SCHOOL.

One hundred and thirty-two paintings, including a pair of paintings by Matabei, the founder of the school (16th century); six paintings by Moronobu, one by Chōshun, two by Kwaigetsudō Andō, and two by Okumura Masanobu (17th–18th centuries); three by Sukenobu, one by Harunobu, one by Koriusai; two by Shunshō; two by Toyoharu; two by Shunman; nine by Yeishi; two by Tsukioka Sessai, and four by Settei; two by Toyohiro; one by Toyokuni; thirty-six by Hokusai, representative of various phases of the art of this famous master; seven by Hokuba; thirteen by Hiroshige, as well as four sketch-books of exceptional interest; two by Yeizan; three by Kuniyoshi; besides specimens of the chief followers of most of those masters.

LATER CHINESE SCHOOL.

Fifty-six paintings, including a series of works by the chief masters of the school,—seven by Tani Bunchō, four by Shōhaku, two by Jakuchiu, one by Buson, one by Chikuden, two by Chinzan, two by Watanabé Kwazan, one by Taigadō—and examples of their principal followers.

MARUYAMA AND SHIJO SCHOOLS.

Eighty-five paintings, including five by Okio, the founder of the Maruyama school; two by Rōsetsu; six by Sosen, some being of unusual beauty and interest; fifteen by Toyohiko; one by Gessen; three by Nangaku; one by Goshun; two by Ippō; seven by Keibun; eleven by Hoyen; one by Tōnan; one by Bunrin; and four by Zeshin; besides works by minor masters.

GANKU SCHOOL.

Nineteen paintings, including three by Ganku, three by Gantai, three by Chikudō, five by Renzan, etc.

INDEPENDENT ARTISTS.

Forty-five paintings, including one by Ritsuwō, one by Hara Zaichu, eleven by Yōsai, ten by Kyōsai, etc.

MISCELLANEOUS.

Two albums and a *makimono*, each containing a number of paintings by various artists.

2.—Chinese Paintings.

Thirty-three in all, including one by Ch'ên Yung, one by Chang-ssū-Kung, one by MuCh'i, and one attributed to Chao Ta-nien (Sung period); one attributed to Chao Mêng-fu, and two by Wang Jo-shui (Yüan period); one by Wu Wei, one by Wên Ching-ming, one by Lin Liang, one by Ch'iu Ying, one by Lü Chi, and one by Chou Chih-mien (Ming period); one by Shēn Nan-ping, and specimens of other masters of the Ming and Ching periods.

Miscellaneous Acquisitions.

Chinese.

Painting.

Wang Wei, attributed to.—Eight landscape sketches, on silk, attributed to this famous master of the T'ang dynasty (8th century), but probably copies made about the 13th century. Of great rarity and interest. *Presented by General Sir Ian Hamilton, G.C.B.* Six sketches formerly belonging to the same album as the preceding. *Presented by F. E. Wilkinson, Esq.*

Chou Wên-Chü, attributed to.—Makimono, on silk, in colours. Ladies and children on a garden terrace. Probably 10th century. With certificate by a famous artist and critic of the 13th century.

Anonymous, Sung period (10th–13th centuries).—Lotuses, white heron, and kingfisher. Kakemono, on silk, in colours.

Fan Kuan (Sung period), attributed to.—Mountain scenery in snow. Probably 14th century; of unusual style and great interest.

Japanese.

Woodcuts.

Kiyonaga. Girl walking on a river bank. *Hashira-kaké.*

Kuniyoshi. Eight prints from the life of the Saint Nichiren, completing the Museum set.

Indian.

Paintings and Drawings.

Mogul School. A large painting in colours on fine cotton, in the classic Persian style, though probably by an Indian artist, painted early in the seventeenth century and representing Akbar, his father, his sons, and other princes of the houses of Tamerlane, assembled in a landscape, with preparations for a feast. Apparently unique in point of size among paintings of this school, and, though mutilated, of the finest workmanship. *Presented by the National Art-Collections Fund with the aid of a contribution from W. Graham-Robertson, Esq.*

Mogul School. Sikander Shah on a hunting expedition; 17th century, slightly coloured. Portrait of a prince, in colours. Group of Yogis, slightly coloured.

Rajput School. The tryst; A girl dancing; Two lovers riding by moonlight; Youth and girl letting off fireworks; Group in a forest clearing; Men and women at a picnic; Two ladies on a garden terrace; A girl musician. All in colours.

Pahari School. Nala and Damayanti. A lady having her feet washed by her maid. Drawn in ink.

Burmese.

Painting.

A large unfinished painting of mythological scenes. *Presented by Daniel Jones, Esq.*

Books of Prints and Books of Reference.

Chavannes and Petrucci. Ars Asiatica. La Peinture Chinoise au Musée Cernuschi.

Gookin, F. W. Japanese colour-prints and their designers. *Presented by Howard Mansfield, Esq.*

Kœchlin, Raymond. Utamaro.

Sotatsu Gwashu. Master-pieces by Sōtatsu (Japanese text and reproductions).

Laurence Binyon.

Department of Egyptian and Assyrian Antiquities.

I.—*Arrangement, Cataloguing, &c.*

Egyptian Antiquities:—

The general re-arrangement of the Egyptian Collections has been continued and, as far as space has permitted, the important objects acquired during the year have been incorporated and exhibited.

Several monuments in hard stone have been washed, and the systematic cleaning of the limestone and sandstone statues, stelæ, etc. has been continued. Many small vessels, bowls, saucers, etc., have been treated for efflorescence of salt.

The labelling of the collections has been continued. Broken numbers have been repaired and many labels have been retouched.

The Egyptian papyri have been removed from the cases in the Assyrian basement to a room in the new building, and the cases which contained them have been taken down and rebuilt.

Sixteen granite plinths have been fixed in the Egyptian Galleries, and sculptures, etc., mounted on them.

Six tablets for offerings, two capitals, five stelæ, and forty-eight miscellaneous objects have been cleaned and repaired.

Seventy-seven Caen-stone, marble, alabaster, and slate plinths have been prepared; one hundred and sixty-six wooden plinths have been made; eight hundred and sixty wooden tablets have been prepared and covered with paper, or cloth, or velvet; forty-four labels have been prepared and polished; thirty-seven stands for vases, etc., have been made; and oak frames for forty stelæ and six tablets for offerings have been made.

One thousand five hundred and seventy-four figures of gods, sacred animals, amulets, objects in porcelain have been mounted, and three hundred and seventy-eight scarabs have been cleaned and re-mounted.

Three sculptures in the Egyptian Gallery have been backed with slate.

Seventy-one labels have been drafted and painted on plinths, frames, etc., and registration and collection numbers have been painted on two thousand seven hundred and two objects.

One thousand four hundred and five objects have been registered or re-registered, and the slip list of the exhibited objects has been continued.

Drawings of the sculptured portions of about seventy-six stelæ, and copies of the hieroglyphic and hieratic texts relating to them, have been made.

Three hundred and twenty moulds and casts of the bases of scarabs have been made for the Catalogue of Scarabs, which is in course of publication, and the scarabs from which they were made have been cleaned, re-numbered, and re-mounted.

Eighty-two objects have been photographed, and about thirty squeezes made.

Works in Progress.

1. *Coptic MSS.*—Three MSS. have been copied and the copies collated and sent to the printer. Twenty sheets of Vol. IV. have been revised and read in proof. An Introduction to Vol. IV. has been written, and three indexes of words, names, etc., have been compiled.

2. *Catalogue of Scarabs.*—An Introduction to Vol. I. has been written, and the proof sheets read and revised, and an Index has been compiled. Two hundred and forty slips for Vol. II. have been written.

3. *Egyptian Texts.*—Material is being collected and several plates have been prepared for Parts V. and VI.

ASSYRIAN ANTIQUITIES :—

The general re-arrangement of the unexhibited section of the Babylonian and Assyrian Collections has been continued, and several bas-reliefs and other sculptures have been washed.

The glass from the sculptures in the Nimrûd Gallery has been removed and cleaned, and photographs of the sculptures for an official publication have been made, and the glass replaced.

About one-half of the collection of tablets has been removed upstairs from the Assyrian Saloon and their cases taken down, and the rebuilding of these cases is now in progress.

One hundred and fourteen tablets have been cleaned; one hundred and twenty-one tablets have been repaired; three thousand and fifty-two tablets have been brushed; three thousand and twenty-one tablets have been arranged in wool-lined boxes; thirty-five fragments have been re-joined; and three hundred and thirty joins have been verified.

One hundred and five casts of Babylonian seals have been made; 1,288 casts of cylinder seals have been verified and numbered; and four cases to hold these have been made. Four hundred pin-numbers have been fixed.

Eighty fragments of tablets have been identified, and their numbers restored.

Thirty-three sheets of the Supplement to the Kûyûnjik Catalogue have been read in proof, and passed for press, and an Introduction has been written.

One hundred and five labels have been drafted and painted, and registration and collection numbers have been painted on about 4,446 tablets.

Eighteen hundred and sixty tablets have been registered, and about 1,200 slips have been written.

About seventy-one texts have been copied and collated; an Index to the Supplement has been compiled; and a complete Index to all the re-joined fragments has been made.

Eight hundred slips of the Catalogue of tablets have been revised, and one hundred and forty slips of the Catalogue of cylindrical seals have been written.

Works in Progress.

1. *Cuneiform Texts.*—Material is being collected for Part XXXIV.

2. *Kûyûnjik Catalogue* (*Supplement*).—The Introduction to this volume is in the hands of the printer.

Publications.

1. Coptic Apocrypha in the Dialect of Upper Egypt.
2. Catalogue of Scarabs. Vol. I.
3. Rosetta Stone.
3. Egyptian Texts, Part IV.

Students.—About 3,860 visits have been made to the Department by students and inquirers; and 20,849 objects have been issued for the use of students.

Personally conducted Parties.—Seventy-two parties have been personally conducted through the Department by members of the staff, the number of persons being about 1,620, including pupil-teachers and others from schools.

II.—*Acquisitions.*

i.—Egyptian:—

i.–1. A wooden head-rest, or pillow, for placing under the head of a mummy. On one end of it is carved a figure of Bes, a Sûdânî god, who is working magic with a pair of snakes, and on the other end are carved a figure of Bes holding the Eye of Horus, and the symbol of the "fluid of life" of Rā. XVIIIth dynasty. From Dêr al-Baharî.

2. A steatite amulet of a fish (*silurus?*), mounted upon a pylon-shaped building, in front of which are two uraei. Archaic Period. From Upper Egypt.

3. Green-glazed faïence figure of the goddess Hatmehit standing between the wings of the goddess Nut. She is supposed to have given birth to Harpokrates, whose head adheres to her body. A rare object. Date uncertain.

4. Fine bronze sacrificial drinking cup, plated with silver-gold and fine copper. From Dêr al-Baharî.

5. Fine bronze bowl of the same material as the preceding, decorated with engraved patterns, flowers, etc. From Dêr al-Baharî.

6. Bronze obelisk, mounted on a stand, in front of which is a pylon-shaped building, surmounted by the figure of a cat. From Tell Bastah. XXIInd dynasty.

7. A black painted wooden box for holding "Canopic" jars. In each of the four compartments is a wooden jar containing a portion of the body of the high-priestess Hentmehit, whose coffin is already in the Museum. From Dêr al-Baharî. XXIst dynasty.

8. A black painted wooden box containing mummified birds, legs of sheep, &c., each of which is wrapped up in fine linen. These were intended to be the funerary food of the high priestess Hentmehit, and came from her tomb. From Dêr al-Baharî. XXIst dynasty.

ii.—1–4. The set of four "Canopic" jars, which were made for Queen Henttaui, the wife of the high-priest king Paiānkh, who ruled at Thebes in the XXIst dynasty. The name of the Queen, written within a cartouche, and her titles are cut upon each jar in hieroglyphics, inlaid with blue paste. The inscriptions contain the Addresses of the Four Sons of Horus as found in Chapter CLI of the Book of the Dead.

iii.—1. A valuable collection of 970 scarabs, forming a section of a larger collection already in the Museum, found in various places on the site of Tanis, in the north-east of the Delta. The scarabs, from which the green glaze has been removed by the moist soil, belong to the period immediately following the XIIIth dynasty, including the reigns of the Hyksos kings. On the bases of many of them are cut designs, figures of gods, monograms, &c., peculiar to the Hyksos. XIIIth–XVIIth dynasties.

2. A pair of fine limestone sphinxes, of unusual character, which stood one on each side of the statues of Ptolemy IX. and his Queen, and their goddess, at the entrance to a small temple in Upper Egypt. Second century B.C.

3–25. A collection of stelæ inscribed in Coptic and Greek, architectural ornaments, etc., from the Monastery of St. Jeremiah at Sakkârah.

3. Rectangular slab with vine leaf decoration.

4. Rectangular slab sculptured with wreath and cupids.
5. Rectangular relief; men gathering fruit.
6. Rectangular relief; dolphin, wreath, cross, etc.
7. Rectangular relief; dolphin and wreath of flowers.
8. Rectangular relief; saint standing in a pillared niche.
9. Rectangular relief; fish, vine leaves, grapes, etc.
10. Part of an arch sculptured with an archangel, wreath, etc.
11. Part of an arch sculptured with a dolphin, etc.
12. Part of a relief; peacock carrying some object in its beak.
13. Part of a relief; bird seated on a branch of a fruit tree.
14. Part of a relief; two angles holding up palm branches and a crown, which rests on pillars.
15. Part of a relief; military knight and an angel holding a wreath.
16. Part of a sepulchral slab which has been pierced with holes, and used as a ventilator (?).
17. Sepulchral stele, with Greek inscription written in red ink.
18. Red sandstone sepulchral stele, with wreath and cross in relief.
19. Sandstone sepulchral stele, with cross, crown, and dove in relief.
20. Sepulchral stele sculptured with crown, annules, and four crosses.
21. Painted sepulchral stele with Greek inscription.
22. Inscribed slab recording the dates of the deaths of a number of monks, John, Sabinus, etc.
23. Rectangular Coptic stele, with columns, cross, etc., in relief.
24. A finely cut stele, with decorated borders, recording the names of a number of monks. It seems to have been inserted in the wall of a church.
25. Slab, with inscription similar to that of No. 24.

iv.—1. A finely-painted stone relief which formed one side of the coffin of Amenemhāt, an official who flourished about B.C. 1350. The deceased is seated with his wife in a bower, and a harper is playing to them.

2. A relief similar in style to the preceding, with figures of the sons of Amenemhāt bearing offerings to their father. XVIIIth or XIXth dynasty. From Thebes.

3. Limestone stele on which is sculptured a scene representing Rameses II. adoring Amen Rā, King of the Gods. The text contains a dedication of temples and statues of Amen-Rā, Ptah, and Thoth. On the back of the stele are a Coptic cross and a rosette, which prove that it was used by the Copts in building one of their churches. XIXth dynasty. From Thebes.
4. Marble (?) door-socket and hub, set in a softer kind of stone. From Karnak. A rare object.
5. Sepulchral limestone stele, with figures of the deceased, his wife, and four sons and six daughters. It belongs to the period between the XIIIth and XVIIth dynasties. From Abydos.
6. Upper portion of a limestone stele of a priestess. XIXth dynasty. From Karnak.
7. Sandstone stele sculptured with a scene representing the Emperor Tiberius sacrificing before Horus and Osiris; the text records the restoration of a part of a temple at Karnak. From Karnak.
8. Massive stone stele sculptured with a figure of Isis suckling Horus beneath a winged disk. This stele was dedicated by one of the Roman Emperors, but the cartouche which was prepared for his name is blank. From Karnak.
9. Sandstone obelisk, on which are sculptured a cross and other Christian symbols; it was used as a sepulchral monument by the Copts. VII–IXth century. From Edfû.
10. Massive bronze mummy-case for kittens, surmounted by a figure of a cat. A rare object. XXIst dynasty. From Gâw.
11. Bronze dagger, of unusual shape, with a long handle, the sides of which were inlaid with ivory plaques. XVIIIth dynasty.
12. Hardstone bottle, with a handle in the form of an ape. XVIIIth dynasty.
13. A flint knife, of very archaïc shape, in a complete state of preservation. Predynastic Period.
14. A flint tool (?) with serrated edges. One of the largest flint instruments yet discovered. Predynastic Period.
15. Green stone pectoral inlaid with feldspar and carnelian. It contains the original heart-scarab. XXIst dynasty.
16. Bluish-green glazed steatite pectoral in the form of a pylon. A fine example, XIXth dynasty.

17–21. Five bone "button seals." Archaïc Period.

22–26. Five cylinder seals. Archaïc period. From Nakâdah.

27–52. A collection of bone amulets, figures of sacred animals, etc. Found in a predynastic tomb at Khizâm.

v.—1. A massive Nubian sandstone capital of a pillar, from the ruins of a Meroïtic temple on the Island of Faras on the Sûdân frontier. Roman Period.

2. A smaller, but in other respects, similar capital. From Faras. Late Roman Period.

ii.—ASSYRIAN :—

i.—1–35. A collection of fifteen fragments of baked clay cylinders inscribed with texts recording campaigns carried out by Sennacherib during the early years of his reign, and describing his building operations at Nineveh. They belong to the cylinders deposited by the king in the great north gate of the city, behind the colossal bulls, and deal with the year B.C. 705, and the following years.

16–136. A collection of one hundred and twenty-one Babylonian tablets, inscribed with contracts, letters, receipts, etc., dating from about B.C. 2000. From Larsa (Senkereh).

137–504. One hundred and sixty-eight Babylonian tablets inscribed with contracts, etc. About B.C. 2000. From Abû Ibrahîm.

505–824. A collection of three hundred and twenty tablets inscribed with texts relating to the distribution of stores and rations to officials travelling between Elam and Babylonia. The proper names are especially valuable. About B.C. 2500. From Telloh.

825–868. A collection of forty-four tablets inscribed with commercial texts of the period of the Seleucidæ.

869–3853. A collection of two thousand nine hundred and eighty three tablets of a miscellaneous character, but dealing with the agricultural operations carried out on the great temple estates of Lower Babylonia, about B.C. 2000. Some are from Telloh and some from Drehem, the latter being of much importance, for they deal with a district of which very little is known, and refer to the supply of beasts for sacrifice in the temple of Enlil at Nippur.

ii.—1. A collection of eleven cylinder-seals in hæmatite, carnelian, shell, etc., the oldest belonging to the Babylonian Period, about B.C. 2300, and the latest to the Persian Period, about B.C. 500.

iii.—1. Sumerian clay sealing, of cylindrical form, dated in the reign of Dungi, King of Ur, about B.C. 2400.

2. Similar clay sealing dated in the reign of Bur-Sin I. the son of Dungi.

3. Clay sealing of conical shape. About B.C. 2000.

4–6. Three tablets dated in the 4th, 7th, and 10th years respectively of the reign of Nabonassar.

7. Contract tablet dated in the first year of Cambyses, *i.e.*, B.C. 529.

8–22. Fifteen letter tablets of the period of the First Dynasty of Babylon, about B.C. 2000.

23–45. A collection of twenty-three contracts and accounts, dating from about B.C. 2000.

46–55. A collection of tablets inscribed with agricultural lists and accounts of the period of the Dynasty of Ur, B.C. 2400.

56–59. Four tablets inscribed with lists and receipts of the Neo-Babylonian Period.

60–66. Four fragments of inscribed tablets, and three modern imitations.

iii.—MISCELLANEOUS :—

i.—1. A large baked clay tablet inscribed in Hittite cuneiform with a text which probably contains a tribute list for cities and towns in the Hittite Empire. The importance of this text geographically is very great.

3–120. One hundred and eighteen fragments of tablets inscribed in Hittite cuneiform.

ii.—1. A glazed Babylonian Amphora. From Niffer.

2. Earthenware jug, with designs in relief. Parthian (?).

3. Brownish-blue glazed ware saucer, with gilt bosses. A very interesting object.

4. Blue ware saucer, with Cyprio-Egyptian design.

5. Cream-brown saucer, with unusual design.

iii.—1–3. Three bronze figures of warriors (?) of an unusual character. They are said to have been found in the neighbourhood of Aleppo. Date uncertain.

4. Figure of a man standing on a lion. Date uncertain. Found in Galilee.

5–17. A miscellaneous collection of scarabs, stamps, seals; etc., the earliest of which date from about B.C. 1400. From Gezer and sites in the neighbourhood.

iv.—1–95. A miscellaneous collection of bowls, bronze tools and implements, iron weapons, alabaster vases, terra-cotta figures, beads, etc., from Deve Huyuk.

Tomb group :—

No. 13
1. Iron spear.
2. Bronze bowl.
3. Bronze strainer.
4. Bronze fibula.
5. Bronze plates.
6. Bag of varia.

No. 8
7. Bronze mirror.
8. Bronze bracelet.
9. Bronze fibula.
10, 11. Two bronze rings.
12. Bronze pendant seal.
13. Beads.

No. 10
14. Bronze goblet.
15. Alabaster saucer.
16. Alabaster vase.
17, 18. Two iron spears.
19, 20. Two bronze bracelets.
21. One bronze kohl stick
22. One bronze mirror.
23. Beads.
24. Silver Persian coin.

No. 7
25. Bronze bowl.
26. Bronze pin.
27. Plain pottery handled vase.
28. Box of beads.

No. Y2 (*Cremation grave*) :—
29. Glazed amphora.
30. Box of beads, etc.

Uncertain tombs :—
31. Large bronze bowl.
32–39. Eight bronze bowls.
40. One bronze saucer lamp.
41. One bronze goblet.
42. One bronze vase.
43. One bronze decorated plate, with row of perforations.
44. One stone bowl.
45. One rhyton.
46. One horn bracelet.
47. One blue glaze pilgrim-bottle.
48, 49. Two blue glaze vases.
50. One pottery Mother-goddess figurine ("snow-man" technique).
51. One Astarte figurine.
52. One horse with rider.
53. One zoomorphic "ram vase."
54. One moulded terracotta "duck" filler.
55. Half moulded terracotta bird.
56. One imitation Cypriote handled vase with bull's eye circlets in black.
57. One small buff vase.

58. One lekythos with ivy pattern.
59. One globose vase of plain brown ware.
60. One amphora, duck-egg green, with black linear ornament.
61. One two-handled pot, buff, with black linear ornament.
62. One buff jug with bearded face on front of neck.
63. One buff spouted vase with loop on spout and handle.
64. One earthenware lamp.
65. One-handled tall neck vase, buff with red bands.
66. Bronze kohl pot with chains.
67–72. Six bronze arrowheads.
73. Steatite tripod saucer.
74. Stone lamp with animal head on side.
75. Bronze bit.
76, 77. One pair bronze anklets.
78–83. Six bronze bracelets (various).
84. Iron axe.
85, 86. Two iron daggers.
87–89. Three iron spears.
90–92. Three iron arrowheads.
93. One iron knife.
94. Bronze spindle.
95. Bone kohl tube.

III.—*Presents.*

i.—1. Scarab of King Pepi. Hyksos Period.
2. Scarab; with an imitation cartouche. Hyksos Period.
3. Scarab; with a figure of a man and two hawks. Hyksos Period.
4. Scarab inscribed Neferkhāu kheperui. XIIIth dynasty.
5. Heart-scarab of Mai. XIXth dynasty.
6. Blue paste scarab of Menkheperrā. XXVIth dynasty.
7. Stone heart scarab of Paima XXVIth dynasty.
8, 9. Two steatite Phœnician scarabs.
10. Hæmatite scarab. Achæmenian Period.
11. Stone scarab, with Gnostic figures.
12. Carnelian bezel of a ring, uninscribed.
13. Red porphyry Syrian seal.
14, 15. Two plaques of verde antique.
16. Red jaspar plaque.
17. Chalcedony bezel of a ring.
18. Agate bead.
19. Amethyst scarab, inscribed in Roman times with copies of the old Egyptian names, Antef, Mentuhetep, Khnemuabrā, etc.

Presented by the late Sir Hamilton Lang, K.C.M.G.

ii.—1, 2. Two fine limestone ushabtiu figures of the priest Nefer. XVIIIth dynasty.
3. Seated bronze figure of the goddess Sekhmet, with a case for holding a small mummified animal. XXVIth dynasty.
4. Bronze figure of Amen-Rā, with disk and plumes, holding a sceptre. A rare object.
5. Blue glazed figure of Sekhmet. From Tûnah.
6. Green glazed figure of the ram of Amen. From Tûnah. Very fine work.
7. Scarab of Amenhetep IV. B.C. 1450.
8. Scarab of Rameses II. B.C. 1300.
Presented by H. L. Hansard, Esq.

iii.—1. Fragment of a stele of Antef. XIth dynasty. From Thebes.
2. Wooden Anubis sceptre, head wanting.
3. Portion of a stone statue of the Ptolemaic Period.
4, 5. Two slices of limestone, on each of which is cut the prenomen of Queen Hātshepset. One is dated on the 9th day of the fourth month of summer, and the other on the 9th day of the second month of summer. On No. 5 is the name of Senmut, the architect (?).
6. Stone fragment bearing the prenomen of Hātshepset.
7. Stone fragment bearing the name Hātshepset.
8. A bronze serpent 5 ft. 2 in. in length ; a very rare object. From a tomb of the Middle Empire at Thebes.
9. Wooden ushabti figure of a king, with a cartouche and titles cut down the front.
10–12. Three terra-cotta coffins, the first containing a figure of Horus, the second a figure of Osiris, and the third a figure of a king. Period between the XIIIth and XVIIth dynasties.
Presented by the Earl of Carnarvon.

iv. Rectangular limestone libation bowl, with dedication to Anubis. VIth dynasty.
Presented by G. M. Davis, Esq.

v. Steatite scarab with figures of sphinxes and hawks cut on the base. Hyksos Period.
Presented by E. S. Morphew, Esq.

vi.—1–28. A collection of ostraka inscribed in hieroglyphic, hieratic, and demotic characters. From Dêr al-Baharî.
29. A statue of Heqab. XIIth dynasty.
30. Ivory lion. Ist dynasty.
31. Set of blue glazed amulets. IVth dynasty.
32. Head-rest. XVIIIth dynasty.
33. Tomb group D. 211. XVIIIth dynasty.
34. Vase S. 603. Ist dynasty.

35. Vase D. 151. Ist dynasty.
36. Vase D. 208. VIth dynasty.
37–44. Eight vases. XIIth–XVIIIth dynasties.
45, 46. Two saucers. XIIth–XVIIIth dynasties.
47–50. Three saucers and a platter. XIIth-XVIIIth dynasties.
51–55. Four vase stands, one stopper. XIIth–XVIIIth dynasties.
56. Vase. XVIIIth or XIXth dynasty.
57, 58. Two Syrian vases. XVIIIth or XIXth dynasty.
59. Pot with graffito. Roman Period.
60. Pot with graffito. Roman Period.
61, 62. Two ibis mummies. Roman Period.
63. Atef crown. Roman Period.
64. Ibis egg. Roman Period.
65. Hawk mummy. Roman Period.
66. Package of snake mummies.
Presented by the Egypt Exploration Fund.

vii.—1. Skeleton of a man in a basket. Found in a grave dug in the brickwork of a mastabah tomb of the First dynasty. From Tarkhân.
2. A box coffin, with the bones of a female, complete, showing the attitude of contracted burial. First dynasty. From Tarkhân.
Presented by the British School of Archæology.

viii.—Topographical Map of Egypt, 2nd edition, sheets :—

N.E. iii., 3.	N.E. viii., 4.
N.E. iv., 2.5.	S.W. ix., 1.
N.E. v., 2.3.	S.W. x., 1.
N.E. vi , 1–5.	S.W. xi., 2.
N.E. vii., 4.	S.W. xii., 2.

Presented by the Director of Surveys, Egypt.

ix. A sepulchral stele, with bilingual inscription in Armenian and Arabic.
Presented by Sayyid Ali Kouli of Bandar Abbas.

x.—1. Agate cylinder seal. Scene : Sacred tree and disk, god and goddess standing on animals. The priest of Ea wears a fish-skin garment.
2. Chalcedony seal. Scene : Priest ministering to Ishtar, Scorpion-man, etc.
3. Chalcedony seal. Scene : Priest before emblems of the Moon, Marduk, etc.
4. Blackstone seal. Scene : Sacred tree, nude figure of goddess, emblems, etc.
5. Chalcedony seal. Scene : Moon god seated, eagle-headed deity and priest.
6. Hæmatite seal of Ur-Shulpae, son of Assanum. Scene : Ur-Shulpae pouring out a libation before his god Shulpae and his consort Ninkharsag.

7. Chalcedony seal. Scene: Sacred tree, winged disk, priest and goddess.
8. Variegated stone seal. Scene: Figures of two goddesses.
9. Chalcedony seal. Scene: Sacred tree. Ashur rising out of a niche; Marduk in conflict with two sphinxes.
10. Chalcedony seal. Scene: Priest worshipping, ibex and star.
11. Marble seal. Scene: Two ibexes attacked by lions.
12. Chalcedony seal. Scene: Priests ministering at sacred tree.
13. Hæmatite seal. Scene: Offering of an ibex.
14. Black stone seal. Scene: A goddess adoring a god, nude goddess, etc.
15. Chalcedony scaraboid with the figure of a goat.
16. Chalcedony cone. Scene: Priest before a god.
17. Chalcedony cone. Scene: A Persian king grasping lions by their tails.
18. Chalcedony cone. Scene: Priest standing before the emblem of the weather god.

The above seals from Assyria belong to the period B.C. 650–600.

Bequeathed by Lady Layard.

E. A. Wallis Budge.

Department of Greek and Roman Antiquities.

I.—*Arrangement.*

The Sculpture Galleries.—The re-decoration and re-arrangement of the Mausoleum Room has been completed; the sculptures have been cleaned and uncovered, and a collection of architectural fragments from various sites has been arranged in one of the bays. Sixteen capitals, a torso and four coffers were mounted and set in position. In the Mausoleum Annexe, a large sarcophagus was repaired and mounted.

In the Ephesus Room two large fragments were fitted together and shown to belong to the restored capital of the Croesus Temple; the capital has been removed and a new restoration to include the new fragments, is in progress. In the Ante-Room the pedestal of the Demeter of Cnidus has been made 9 inches lower.

A re-arrangement of the Græco-Roman Basement has been carried out; 25 Etruscan sarcophagi have been brought from the Annexe and mounted on steel shelves.

Two portions of a mosaic floor from Carthage have been re-united on the N.W. staircase. Twelve busts from the basement have been placed on pedestals in the new Large Room (Department of Printed Books).

The Upper Galleries.—In the First Vase Room recent accessions of Neolithic Thessalian sherds have been arranged in drawers; the Cycladic and Italic sections have been re-arranged; and a further series of electrotypes of Minoan and Mycenaean objects has been placed on exhibition. A re-arrangement of Corinthian vases was carried out in the Second Room and a table-case fitted with drawers. The new standard case in the Fourth Room was filled and the exhibition of late Italic wares modified in consequence. Throughout the Vase Rooms the vases and cases have been cleaned.

In the Bronze Room the head of Augustus from Meroe has been mounted on a marble plinth and a chronological arrangement of fibulæ in drawers has been undertaken. The sections on Religion and Toilet in the Exhibition of Ancient Life were re-arranged. The cases in the Terracotta Room have been repapered and repainted, the mounts of the terracottas have been repainted, and the terracottas have been replaced.

For the Catalogue of Lamps the proofs were corrected in page and the illustrations were completed. New acquisitions were incorporated into Vol. I. of the Catalogue of Vases and the manuscript was completed to the end of the Geometric Section; Vol. V. of the same Catalogue was completed in manuscript to the end of the red-figure section. A Guide to the Gallery of Sculpture Casts was published.

Moulds have been made of four slabs of the Parthenon frieze, of the Strangford Apollo, of the Trentham mourning

woman, of four marble busts, the bronze Marsyas, and bronze Aphrodite head, and of the plaster cast fragments of the Guilford puteal. Twenty-two pieces of sculpture and four inscriptions have been mounted on stone pedestals; 12 statuettes from the islands, 240 gems, 85 terracottas, 117 bronzes, 43 vases, 1 gold and 1 silver object, and 4 electrotypes were mounted on wooden bases. 572 objects were registered and 1,147 numbered: 147 labels were written and 13 printed.

The number of visits to the Departmental Library and Students' Room for purposes of research was 934; there were 810 other visits to the Staff for enquiry or on departmental business, and 1,945 attendances of students of art and architecture in the Sculpture Galleries.

II.—*Acquisitions.*

I.—*Gold.*

1.—(*a*) Fifteen objects from a tomb of the Mycenæan period, near Laksha, Cyprus; these include a diadem stamped with rosettes, a fluted finger-ring and ear-rings of various types.

(*b*) Twelve ear-rings from other Cypriote sites. *Presented by the late Sir Robert Hamilton Lang, K.C.M.G.*

2. Pair of Etruscan "trumpet" ear-rings from Orvieto.

II.—*Silver.*

3. Group of seven objects, comprising a mirror, pyxis, saucer, ladle, cup, spoon, and spindle; found together in a tomb at Brusa.

III. *Bronze.*

4. Statuette of a barbarian with hands tied behind, wearing tunic, cloak, and braccæ. A work of great refinement and delicacy. Height 4 in. From Umbria.

5. Statuette of a Roman priestess with cup and incense burner; one of a group said to come from the Lake of Nemi; *see* Reinach, *Répertoire*, IV., p. 307; *Revue Arch.*, 1909, pls. XI., XII.; *Illustrated London News*, 11th January 1910. Height 10 in.

6. Statuette of Zeus of Lysippian type, with left arm raised, right hand holding a thunderbolt. Height 3·8 in. From Umbria.

7. Statuette of Victory with a wreath, standing on a globe. Height 5½ in. *Burlington Fine Arts Club Catalogue*, pl. 46, No. A 28A; *Bourguignon Sale Catalogue*, pl. VIII.; Reinach *Répertoire*, III., p. 116, No. 4; IV., p. 234, No. 5; Fitzhenry Sale, lot 563.

8. Statuette of Triton with paddle and horn. Fitzhenry Sale, lot 566.

9. Statuette of recumbent lion of archaic style. Length 3·6 in. From Macedonia.

10. Etruscan mirror with design of two warriors supporting a third. Found at Castiglione della Teverina, 1877. *Notizie d. Scavi*, 1877, p. 147, pl. IV.; *Bull. d. Inst.*, 1880, p. 9; Gerhard, *Etrusk. Spiegel*, V., pl. 113; Fitzhenry Sale, lot 568.

11. Etruscan mirror with design of Heracles and Iolaos. Gerhard, *Etrusk. Spiegel*, IV., pl. 337, fig. 2.

12. Greek mirror with incised design of Europa on the bull.

13. Axe head of the late Bronze Age; the blade, which is in form a flanged celt, is cast in one piece with a hollow tube, into which a haft was fitted; the thongs, which united celt and handle, are represented by bronze stays. Cf. *Montelius, Vorklassische Chronologie Italiens*, pl. 40. Length 11½ in. From the neighbourhood of Orvieto.

14. Lamp with recurving handle terminating in a tragic mask. Cf. *Sammlung Niessen*, 3779, 3780. Length 10½ in. From Rome.

15. Pair of Hinges of singular construction, the hinge being combined with a dowel, or guide-piece. *From Syria. Presented by E. T. Steele, Esq.*

16. Shovel (*Batillum* or *Vatillum*); the handle is in the form of a half Corinthian column, with palmette wrist-piece. Cf. *Museo Borbonico*, X., pl. 64, figs. 3, 4. Length 19½ in. From Askalon.

17. Jug, with handle in the form of an ivy-tendril. Height 6·7 in.

18. Shallow dish with upright handles. Diameter 12·2 in.

19. Ladle; the handle terminating in a swan's neck. Length 23·6 in. No. 17–19 are from Beesan (Beth-Shan) Palestine.

20. Shallow situla or bucket, the handle with palmette attachments.

21. Harness buckle and clasp, the hooks of the latter terminating in dogs' heads. Cf. Montelius, *Vorklass. Chronologie*, fig. 197. From the Cyrenaica (?).

22. Two candlesticks. Height 6·3 in. From Tell Nimrin, Syria.

23. Two strigils. From Damascus.

24. Fibula with two spirals. Length 4 in.

25. Fibula, bow pattern.

26. Penannular fibula. Cf. Paris, *L'Espagne Primitive, II.*, pl. VIII., fig. 3.

IV.—*Lead.*

27. Weight inscribed with Cypriote characters. *Presented by the late Sir R. H. Lang, K.C.M.G.*

V. *Marble.*

28. Mosaic pavement; in the centre a nude youth stands at an altar beside trees; at the corners are medallions containing Satyrs, Mænads, and shepherds; the whole enclosed by mæanders of guilloche and triangular patterns. Length 8 ft. 10 in. Excavated at St. Romain-en-Gal, near Vienne: *see* the *Nouvelliste de Lyon* and *Le Progrés* of 25th July, *Lyon Républicain* of 26th July and *Dépêche de Lyon* of 2nd August 1913.

VI. *Gems and Glass.*

29. Sard intaglio; head of river god. *Newton-Robinson Sale Catalogue,* lot 59: Furtwängler, *Antike Gemmen,* pl. LXV., No. 26; *Burlington Fine Arts Club Catalogue,* pl. CX., No. H 174. *Presented by the Rev. G. H. Johnson.*

30. Sard intaglio: Diomede with the head of Dolon. *Presented by Sir C. H. Read, P.S.A.*

31. Sard intaglio; female bust.

32. Plasma intaglio; youthful head wearing helmet.

33. Paste intaglio; Eros riding.

34. Sardonyx cameo; Eros running.

35. Fragment of paste cameo; female head.

Nos. 30–35 from Cyprus. *Presented by the late Sir R. H. Lang, K.C.M.G.*

36. Glass term of bald bearded man with cloak and money-bag (?). Height 1·3 in.

VII. *Pottery.*

37. A large series of sherds of prehistoric fabrics from excavations in Thessaly at Dimini, Sesklo, Lianokladi, Mezil Magoula, Mesiani, Rakhmani, Tsangli, Tsani, and Zerelia; with other objects of clay, stone, obsidian, and bone. *Presented by the British School at Athens.*

38. Three Minoan vases from Crete.

39. Bowl of late Minoan period from Crete. *Presented by Theodore Fyfe, Esq.*

40. Jug of Dipylon style with bands of birds, horses, and geometric patterns. Height 17½ in.

41. Cup of Phaleron style; frieze of four horses and a man. Height 4 in. Cf. *Jahrbuch d. Arch. Inst.,* II., p. 50, figs. 9, 10.

42. Two pyxides, with lids, of late Geometric style, the decoration approaching the Protocorinthian type.

43. Four-handled bowl of Boeotian geometric style, with decoration of bands and panels.

44. A series of sherds of early Lydian fabrics from the excavations at Sardis of the American School at Athens. *Presented by W. Buckler, Esq.*

45. A series of sherds of Phœnician fabrics from Motya. *Presented by Dr. T. Ashby.*

46. Lekythos of Protocorinthian style with friezes of lions, goats, and hounds.

47. Cotyle of Protocorinthian fabric with a black figure design of a pair of spearmen on each side. Under one handle was a third pair, but one figure has been obliterated and replaced by a large cantharos on which a jug is placed as a mark for the other spearman. *Presented by L. McCormick-Goodhart, Esq.*

48. Kylix of Vourva style, with frieze of animals.

49. Etruscan red-figure amphora, with designs of a Satyr and Mænad, and a Mænad; in each case the Mænad is shown as winged. Height 14·4 in. From Civita Castellana.

50. Late Etruscan red-figure jug with a design of a female head and palmettes. Height 12·3 in. From Corneto.

51. Canosa askos with polychrome decoration including a female head springing from a flower, among tendrils and winged figures, in blue, pink, and brown; on each spout stands a statuette of Eros. Height 12 in.

52. Cantharos of green glazed ware, with a frieze of Bacchic figures in relief.

53. Two fragments of glazed ware with designs in relief.

54. Two amphoræ of blue glazed ware with moulded ornaments. Height 13·3 and 10·2 in. From a cemetery near Selemia (North Syria); 2nd century A.D.

VIII. *Terracotta.*

55. Four primitive figurines from Kul Tepe, near Cæsarea. *Presented by F. W. Hasluck, Esq.*

56. Statuette of archaic style; a woman making bread; at her side is a dough trough and she kneads the dough on a ledge in front of the oven.

57. Statuette of Eros bearing a kid on his shoulders.

58. Statuette of a boy seated on an altar with a gourd in his hand. Cf. Winter, *Typen, II.*, p. 257. Height 6 in. Said to come from Tanagra.

59. Group of Aphrodite with Eros astride a dolphin. Height 6·6 in. From Asia Minor.

60. Veiled female head of 4th century type.

61. Relief of youth (upper part) modeled by hand. Height 8 in. From Rome.

62. Two portrait busts; boy and woman, of the 2nd century A.D. Height 9 and 9·7 in. From a cemetery near Carchemish.

63. Fragmentary statuette of standing woman.

64. Roman lantern of perforated clay.

IX. *Plastercasts and Reproductions.*

65. Casts of slabs XV. N. side and slab XIV. S. side of the Parthenon Frieze. *Presented by the Greek Government.*

66. Set of John Henning's miniature reproductions of the Parthenon and Phigaleian friezes. *Presented by Miss Marcus.*

67. Cast of the statue of Myron's Athena at Frankfort.

68. Cast of the "Eubouleus" head at Athens. *Presented by Lady Owen-Mackenzie.*

69. Cast of the sima of the Temple of Athene Polias at Priene.

70. Cast of the relief of Athena at Lansdowne House.

71. Electrotype reproductions of 27 Minoan and Mycenæan objects of gold or bronze.

A. H. Smith.

Department of British and Mediæval Antiquities and Ethnography.

1.—*Arrangement, Cataloguing, etc.*

Prehistoric Saloon.—The exhibition of Stone Age specimens in drawers accessible to the public has been continued, and a type series of the flints excavated for the Museum and H.M. Geological Survey exhibited with photographs of the sections in a desk-case.

Roman-British Section.—The exhibition drawers in the Central Saloon have been overhauled periodically.

Anglo-Saxon Room.—The collection from Long Wittenham, Berks, has been remounted and grouped according to the graves, and the general remounting of the larger series begun.

Mediæval Room.—Two wall-cases and two table-cases have been cleared, and the Barwell Bequest of Limoges enamels exhibited. The watches, dials, and astronomical instruments have been permanently labelled.

Glass and Ceramic Gallery.—Specimens from the Near East, mostly fragments of pottery, have been exhibited in drawers accessible to the public, and the Durighello collection of ancient glass from Syria exhibited in a table-case cleared and relined for the purpose. In the ante-room a loan collection from Mr. Charles Borradaile has been exhibited in a wall-case.

Gallery of Religions.—The re-arrangement of the Buddhist room has been continued, and a large number of labels provided for the Buddhist and Hindu sections.

Asiatic Saloon.—The permanent labelling of the Chinese wares has been continued.

Ethnographical Gallery.—Progress has been made with the labelling and re-arrangement of the African section, and the Macleod collection from West Africa has been exhibited in two wall-cases and a table-case. Three cases have been cleared and the Torday collection from the Congo exhibited. Labels have been added in the Asiatic section, and the King's collection from Tibet exhibited. A new collection from the South Pacific has been arranged.

American Room.—A collection of Yca pottery from Peru has been arranged, and pottery fragments and implements exhibited in drawers accessible to the public. A series of Peruvian textiles has been exhibited, and many permanent labels have been added in this section.

Registration.—The registration of current acquisitions has been continued, and 4,193 objects have been added, including ethnographical specimens. Numbers have been painted on 4,340 specimens and 1,271 permanent labels written. Photographs to the number of 161 have been prepared in the Department for purposes of illustration and reference, 40 photographic

prints, and 12 lantern slides prepared. Typewritten labels to the number of 463 have been cut and bordered, and 12 printed on the hand-press; 183 mounting boards have been papered, and 1,789 objects mounted. There have been prepared 400 trays, tablets, pedestals, labels, frames, plinths and packing-cases, and certain cases refitted. A New Zealand canoe, Egyptian head-rest, gourd, and food-bowl have been repaired.

Ancient Indian stone sculptures to the number of 109 have been cleaned and wooden plinths provided. A large series of photographic negatives have been classified and stored in cases, and ethnographical documents examined and filed.

Excavations were conducted in conjunction with H.M. Geological Survey at Swanscombe, Greenhithe, and Crayford, Kent, on 11 days in the spring, and the Hull meeting of the Museums Association was attended in July. A collection of Frankish and other antiquities on the Rhine was inspected in September.

Publications.—Current additions have been made to the slip catalogue of Oriental pottery and porcelain, and the catalogue of Renaissance and later gems continued. Guides to the Romano-British and Anglo-Saxon collections have been begun, and a number of illustrations prepared. A slip catalogue has been made of the Hindu collection, and another of the mediæval Buddhist collection begun.

Students.—Three thousand eight hundred and twenty-seven students and visitors have been received in the Department, and three demonstrations have been given by members of the staff in the Prehistoric and Ancient American sections.

2. *Acquisitions.*

(1.) *Prehistoric and Early British Antiquities:—*

(*a*) *Stone Age.*—Three palæolithic implements from the gravel and an arrow-head said to be from the surface at Kempston, Beds. *Presented by J. Darrell Hill, Esq.*

Palæolithic implement from Belbin's pit, Test valley near Romsey, Hants. *Presented by W. M. Tapp, Esq., F.S.A.*

Palæolithic implements and flakes from the gravel at Kennet and Kentford, near Newmarket, and surface flints from Tuddenham and other sites in N.W. Suffolk. *Presented by C. R. Jennings, Esq.*

Flint implement worked on surface, from Aylesbury, Kent. *Presented by B. Harrison, Esq.*

An important series of implements and flakes from working-floors in or below brick-earth at Round Green near Luton, and Gaddesdon Row, Herts. Collected by Worthington G. Smith, Esq. Also an exceptional flat implement from the Thames at Tilbury, and other implements of special interest.

Conical flint implement found by the donor in clay-with-flints at 400 ft. O.D., Blendworth, Hants. *Presented by Col. Jamieson.*

Chopper from Cissbury, Sussex; implements from Friston, Sussex, and Icklingham, Suffolk, and blade with end-scraper from Co. Antrim. *Presented by J. Reid Moir, Esq.*

Two stone anvils from the sandhills of Luce Bay, near Glenluce, Wigtownshire. *Presented by A. Henderson Bishop, Esq.*

Chipped flint celt of unusual form from the Thames at Kingston.

Chipped flint celt found at St. Mary Cray, Kent. *Presented by J. S. Fearnley, Esq.*

(*b*) *Bronze Age.*—Half-mould for casting looped palstaves, found at Llwynmawr, Bala, Merionethshire.

Portion of broad socketed spear-head from a hoard found at Broadness on the Thames near Northfleet and described in *Proceedings of the Society of Antiquaries of London*, XXIII. 170.

Trumpet-ended penannular armlet found near Tullamore, King's Co.

(*c*) *Early Iron Age.*—Dagger-sheath of bronze from West Buckland, Som., described in *Proc. Soc. Antiq.*, XXV. 58, and iron spear-head of a rare type from the Avon near Clifton. *Presented by Maurice Rosenheim, Esq., F.S.A.*

Iron dagger with debased anthropoid pommel from Sea-Mills on the Avon near Bristol. *Presented by Sir Hercules Read, P.S.A.*

Spur-shaped bronze pendent ornament, probably for a horse, from Mullingar, Co. Westmeath.

(*d*) *Foreign.*—A series of stone implements, many of palæolithic type, bronze axe-heads, daggers, and other weapons from the neighbourhood of Jerusalem.

Quartzite implements of Le Moustier date from the Grotte de Bize, Aude, France. *Presented by M. Joseph Albaille.*

Flint implements of late Le Moustier date from La Quina, Charente, France. *Presented by Miss A. C. Breton.*

Stone axe-heads and bronze ring from lake dwellings on Lake of Neuchâtel, Switzerland.

Flint end-scrapers and blades from a grave at Tarkhan, Egypt, middle 1st dynasty. *Presented by the British School of Archæology in Egypt.*

Iberian iron spear-heads, dagger, and knife from Spain, described in *Archæologia*, LXIV. *Presented by Horace Sandars, Esq., F.S.A.*

Pottery vessels, bronze sword and axe-heads, ornaments and beads from Early Iron Age graves in the Caucasus. *Presented by Prince Naourouz Onrousbieve.*

Bronze axes, spear-heads, blades, armlet pottery bottle and bronze vessels found at Khinaman, Persia, and partly described in *Archæologia*, LVIII. 10. *Presented by Major P. Molesworth Sykes.*

Bronze razors and hairpins from Corea. *Presented by G. Eumorfopoulos, Esq.*

Pottery vase, probably prehistoric Japanese. *Presented by Mrs. John Dorey.*

(2.) *Romano-British :—*

Inscribed stone altar (*Corpus Inscr. Lat.*, VII., No. 291), tombstone of Publius Aelius Bassus of the 20th Legion (*Corpus*, VII., No. 292), part of standing figure in niche, querns, lamps, and cinerary urns from Watercrook, near Kendal, Westmorland; also a sandstone altar dedicated to the Deae Matres, from the beach at Skinburness, near Silloth, Cumberland (*Corpus*, VII, No. 418).

(3.) *Anglo-Saxon and Foreign Teutonic :—*

Enamelled escutcheons and fragments of a bronze bowl found with an iron sword in a grave at Barlaston, Staffs., and described in *Archæologia*, LVI. 44.

Four gravestones with interlaced decoration of the early 11th century, from Bibury, Glouces., described in *Proc. Soc. Antiq.*, Vol. XXVI. *Presented by the Hon. and Rev. Canon F. G. Dutton.*

Irish bronze pins of various designs. *Presented by Maurice Rosenheim, Esq., F.S.A.*

Bronze penannular brooch from Lough Ravel crannog, Randalstown, Co. Antrim, another from Mullingar, Co. Westmeath, and two "latchets" once enamelled from Newry, one figured in *Proc. Soc. Antiq.*, XXII, 79.

(4.) *Mediæval and Later :—*

(a.) *British* —An important series of seal-matrices from the Dimsdale collection : (1) Thos. Beaufort, K.G., Duke of Exeter and Earl of Dorset, as Lord High Admiral, about 1416–1426, engraved in *Archæologia*, XLVII. 278, Fig. 5 ; (2) John Holland, Earl of Huntingdon, as Lord High Admiral (died 1446) ; (3) Priory and Convent of the Holy Cross, Cottingham, E.R. Yorks, dated 1322 ; (4) Priory of St. Mary, Langdon, Kent, 13th century ; (5) Guild of St. Helena at Colchester, late 14th century.

Bronze seal-matrix, 14th century, said to have been found on Salisbury Plain, with legend LEGE TEGE and IE SV SEL IOLIS Ē GAI Ē LEL.

Bronze bookbinding stamp with jewel of the Order of the Bath and arms of Christopher Hatton, 1st baron (died 1670); a silver ring for a hawk, engraved *John Coventry, Esq., in Worcestershire ;* and four seal-matrices. *Presented by Maurice Rosenheim, Esq., F.S.A.*

A series of leaden pilgrims' signs of various forms, mostly of the 15th century.

Two bronze candlesticks found on the site of Lesnes Abbey, Kent. *Presented by the Woolwich Antiquarian Society.*

Bronze stirrup, late 15th century, said to have been found in the New Forest at Ringwood. *Presented by A. D. Passmore, Esq.*

A collection of iron keys of various dates from the Thames, formerly in the possession of Sir Chas. Reed, F.S.A. *Presented by William C. Chipper, Esq.*

Ninety-six steel seal-matrices of the Exchequer ranging in date between 1696 and 1840. *Presented by the Lords of H.M. Treasury.*

Bronze seal-matrix of Maurice Swaby, Commissary of the Dean and Chapter of Westminster, 1752–1820.

Gold badge for admission to Vauxhall Gardens, inscribed *Hogarth, in perpetuam Beneficii memoriam*, date about 1730. *Presented by C. Fairfax Murray, Esq.*

Leather-covered étui, 18th century, and tortoise-shell snuff-box. *Presented by Miss S. A. Bird.*

(b.) *Foreign.*—Unfinished bronze seal-matrix, with Virgin and Child and space for legend, probably Spanish. *Presented by Señor Don G. J. de Osma.*

Bronze seal-matrix, St. George of Ferrara, 16th century. *Presented by J. Pierpont Morgan, Esq.*

Gilt pocket dial made for Hans Rosenberger in 1557 by Christopher Schissler, of Augsburg. *Presented by Maurice Rosenheim, Esq., F.S.A.*

Gilt metal terrestrial globe with engraved legend, made by Ferd. Frid. Waechtler, in Fürth, 17th century. *Presented by Messrs. Durlacher Bros.*

Cameo of a Roman imperial head, signed by Cerbara. Italian, late 18th century. *Presented by Mrs. Louis Fagan through the National Art-Collections Fund.*

Steel seal-matrix with handle in the form of the Emperor Napoleon. *Presented by Miss Bird.*

Silver pocket-case of circumcision instruments, with book of the ritual, made for Asher Asher, Esq., M.D. *Presented by Abraham Cohen, Esq., M.D.*

(5.) *Ceramic and Glass Collections:*—

(a.) *Oriental Wares.*—Figure of a camel and blue-glazed vase from China. *Presented by Dr. F. Buckeńs.*

Pottery head and figure of hen and chicken from tombs in Szechuan, collected by the late Lieut. Brooke. *Presented by Mrs. Brooke through Lt.-Col. H. H. Godwin-Austen, F.R.S.*

Chinese pottery jar with turquoise glaze, perhaps used as a crucible for enamels. *Presented by A. W. Bahr, Esq.*

Earthenware pot from a grave of the Ming period in Fukien, with inscription; and covered bowl and cup of the T'ang dynasty. *Presented by Rev. H. S. Phillips.*

Stoneware pillow, Chinese Chün Chow ware of the Sung dynasty. *Presented by G. Eumorfopoulos, Esq.*

Stoneware quatrefoil tray of Canton ware, signed and dated 1625 A.D. *Presented by Sir Arthur Church.*

Green-glazed jar, crackled and powdered with blue, Chinese Yi-hsing ware, 19th century. *Presented by R. L. Hobson, Esq.*

Corean stoneware vase with green glaze. *Presented by Capt. Kenneth Dingwall.*

Porcelain and pottery jars and bottles from Corea. *Presented by Wm. Tapp, Esq., F.S.A.*

Bottle of celadon ware with engraved pattern, 14th century. *Presented by C. L. Rothstein, Esq.*

Fragments of painted Persian pottery, tiles with human heads and part of a pottery cup in relief. *Presented by George Tabbagh, Esq.*

Three pottery bowls of Persian ware, 14th–15th century.

Pottery tiles, bottles, and bowls with a number of fragments excavated at Sultanabad, Persia. *Presented by S. S. Bagge, Esq., C.M.G.*

(b.) *Continental.*—Pottery bowl and six jugs, glazed and ornamented in green and manganese, with devices, coats of arms, and fir-cones in relief, Italian. 14th–15th century, from Orvieto.

(c.) *English.*—Pottery covered cup with cream glaze, printed in black with figure subject and stamped CREIL, about 1800. *Presented by J. Edge-Partington, Esq.*

Six cameos of Wedgwood ware with classical subjects. *Presented by Maurice Rosenheim, Esq., F.S.A.*

(d.) *Glass.*—An important series collected in Syria by M. Durighello, comprising amphoræ, cups, flasks, vases, stibium-pots and bowls, and illustrating the various kinds of decoration in the Roman period. *Presented by W. Lockett Agnew, Esq., and Fairfax Murray, Esq.*

Various bottles and vases of the Roman period from Aleppo and Samaria.

Green ewer with waved strip below the handle, found in Dora.

Byzantine jug with cut pattern and medallions.

Inkpot with three loop handles and circular stamps of a lion on the three indented sides, Arab, obtained at Beirût. *Presented by C. L. Woolley, Esq.*

Standing cup with cover with cyphers of Augustus the Strong, Elector of Saxony and King of Poland and his queen, Christine Eberhardine, married 1693.

Six glass cameos and intaglio with classical subjects, 18th century. *Presented by Maurice Rosenheim, Esq., F.S.A.*

Wine bottle, inscribed on medallion D. Davis 1801. *Presented by Sir Hercules Read, P.S.A.*

A flask of Nailsea glass. *Presented by C. G. France, Esq.*

(6.) *Collection illustrating various Religions :—*

(a.) *Christianity.*—Five pottery lamps with emblems, from the Hauran, Syria.

Gold finger-ring with cornelian intaglio of the Good Shepherd, from a monastery in Cyprus. *Presented by Capt. A. Egerton.*

Coptic stone capitals from Memphis, and other antiquities from Miniet-esh-Shurafeh, six miles south of Helouan, 3rd–6th century. *Presented by the British School of Archæology in Egypt.*

(b.) *Buddhism.*—Series of Gandhara sculptures with figures and scenes from Jatakas. *Presented by Lt.-Col. G. A. Dale.*

Two bronze figures from Ceylon, one recumbent ; Sinhalese. *Presented by Mrs. Charles Lyon.*

Gilt metal Buddhist figure on lotus throne, from the Malay peninsula.

Recumbent alabaster figure of Buddha, found in a niche in the foundations of an ancient tope at Old Pagán, Burma. *Presented by Mrs. McMahon.*

(c.) *Lamaism.*—Three brass seated figures of deities, one from the Tibetan palace at Lhasa and subsequently at Pekin. *Presented by S. G. Asher, Esq.*

Brass shrine, stone tea-pot, horn, thunderbolt-daggers and trumpet made of human thigh bone, from Tibet.

(d.) *Mohammedanism.*—Wooden prayer tablet from Persia.

(7.) *The Barwell Bequest :—*

The most important acquisition of the year is the collection bequeathed by the Rev. Canon A. H. Sanxay Barwell, F.S.A. The principal section is that comprising the Limoges enamels, of which Canon Barwell had the finest series in Europe in private hands. In addition to these the bequest includes some fine pieces of silver plate, panels of English alabaster carving, and a number of examples of pottery and porcelain, both English and foreign.

Champlevé Enamel.—A square panel with busts of St. James and St. John. Lorraine work of the 12th century. A panel from a Gospels' cover with the Crucifixion ; from the Albert Way Collection ; another similar with Our Lord in Majesty ; a panel from a casket, with three angels, and a small pyx ; all of Limoges work of the late 12th and early 13th century.

Painted Enamels of Limoges.—Of the earlier type, the most striking and important is a triptych by Nardon Penicaud, with the Entombment, the Deposition, and the Resurrection. For beauty and brilliancy of colour, and for the fine characteristic drawing this piece is in the first rank; and in these respects is quite comparable with the triptych from the same hand in the J. Pierpont Morgan Collection. The other pieces by Nardon Penicaud are two panels of fine drawing, but more quiet in their colouring, the Bearing of the Cross and the Resurrection. Of the same school is a leaf-shaped panel with a Tree of Jesse, a smaller triptych, and a pax.

Several examples may be set down as from the hand of Jean Penicaud II. One of them showing a miracle of St. Martial is signed in full; of the others, three are in the peculiar statuesque style, a figure of "Fides" and others of the Evangelists SS. Matthew and John. The production of the Penicaud school are represented by a very fine casket of gilt metal with panels of very minute style illustrating the Labours of Hercules, and a small and brilliant panel evidently from the same hand; two panels from the Story of Psyche (after engravings by the Master of the Die), an oviform vase with combats of warriors, and two plates with the creation of Adam and the Fall. The enigmatical artist known as Kip is represented by three good specimens, one of them a fascinating composition with the Virgin and Child seated in a building. Of the work of Pierre Reymond (whether one artist, or father and son) there are 14 examples dating from 1538 to 1571. An interesting and brilliant piece is a panel representing monks playing bowls, another very attractive object is a ewer with Moses striking the Rock, a second with the Exodus from Egypt, a fine oval dish signed **P. REXMO** 1571 with the Creation of Eve, &c., in grisaille, a blue tinted grizaille tazza with Dido entertaining Aeneas; five plates from a set illustrating the Story of the Golden Fleece, and a large rose-water dish with a procession of the seasons. Leonard Limousin is represented by eight pieces, of which six are copies of the engravings beforementioned of the Story of Cupid and Psyche, all in their original frames; another shows St. Hubert and the miraculous stag, painted in brilliant colours, while the last and most important is a portrait of one of the Reformers, said to be Calvin himself, executed in the best style of the artist. Of Jean Court "dit Vigier" there are two examples, both signed; a tazza admirably executed with marine deities, another with the falling of the manna. Jean Courtois has four pieces, two of them of exceptional brilliancy of colouring, one a tazza, shows the various phases of the Deluge, the other Joseph receiving his brethren. Pierre Courtois has five examples, of which two, again, are of more than usual interest; one shows a kneeling family of four persons with the Annunciation in the background and the signature **P. OVRTEYS**, while the other has an allegorical subject referring to the age of man. One important panel and two lesser pieces are from the hand of Suzanne Court. The

first represents the Adoration of the Magi, an admirably preserved piece, the others, though on a smaller scale, are both characteristic and satisfactory. Leonard Limousin II. has only a single specimen, a salt cellar richly decorated. A mirror back is signed by Jean Limousin, and a similar piece bears the signature I. G. A fine and imposing triptych with the story of St. John the Baptist, and a small panel showing Christ before Pilate, are both signed by Martin Didier.

Among those that cannot with certainty be set down to a particular artist, several deserve mention. One is a very small panel with scenes from the Passion, exquisitely painted and ornamented with leafy borders in a style quite original and full of charm; two others are larger panels with the Presentation in the Temple and the Marriage of the Virgin, a fourth is a medallion in quite an unusual style both as to drawing and colour, representing Our Lord and the Virgin.

Crystals and Plate.—A curious goblet of crystal said to have been given to the Abbey of Compiègne by Charles the Bald; a crystal standing cross containing relics and mounted in gold enamelled and set with jewels, probably by a Munich artist of the 16th century; a processional cross of silver parcel gilt and set with translucent enamels on relief, an unusually fine piece of Italian work of about the year 1400; a Sienese silver chalice with enamels; a silver dish vigorously embossed with figures, Portuguese, 16th century; a silver panel embossed with the Holy Trinity and signed by Van Vianen, 1670, a very fine work, a silver gilt paten of the 17th century, and a charming pectoral triptych of Flemish work of about 1470.

Alabaster Carvings.—Six panels of English work of the 15th century, two of them of unusually large size, one representing a martyrdom; the other four are of the usual dimensions, the subjects being the Entombment, the Betrayal, and the Coronation of the Virgin. A smaller panel of French work of the 15th century, with the Virgin and Child.

Pottery and Porcelain.—A ewer and dish of Persian ware; three mugs, a jug, and two dishes of Rhodian ware; seven dishes of Italian majolica, two by Fra Xanto, and an albarello; a dish of Spanish lustre ware with a goose; a cup and saucer of brown Bayreuth ware; a plate and jug of Rouen faience; five examples of fine Meissen porcelain; a cup and saucer of Berlin porcelain; a Sèvres plate; a cylindrical vase and cover of Mennecy; a bowl, cover, and stand of Courtille porcelain; a plate, a dish, and a cup and saucer of Tournay porcelain; a plate and a cup and saucer of Vienna; a fine large group of the dead Christ of Italian ware; an écuelle of Naples porcelain; a covered jug of Capo di Monte and three pieces of Chinese porcelain.

The English porcelain includes two Chelsea plates, two late groups of the same factory, a trellis basket, a bowl and cover, three vases, and a cup and saucer of the finest period; a Bristol cup and saucer of the service given by Champion to Mrs. Edmund Burke.

Chinese Enamels.—A saucer, dish, and a covered bowl of Canton enamel of unusual delicacy of execution.

(8) *Chinese Buddhist Statue.*

The most important single object acquired by the Department during the year is a seated figure of a Buddhist priest in pottery, attributed to the T'ang dynasty (618–906 A.D.). The statue is slightly larger than life, and measures 43 inches in height, seated in Buddhist fashion. It is made of a hard pottery, covered with glazes of various colours, chiefly yellow and green, the former being the colour of the characteristic Buddhist patched robe; the head is shaven and bare, and the hands are folded in the lap with the palms upwards.

Works of art of the T'ang dynasty of any size are most uncommon, and it is evident that statues of the proportions of this example must necessarily be very rare. It is an astonishing piece of work, even when regarded from the point of view of the practical potter, to have dried and fired a figure of this size with such conspicuous success, and it is somewhat of a revelation to Europe that the Chinese were capable of such work in the 9th century.

While the technical peculiarities are noteworthy, the artistic side of the figure is fully as worthy of remark.

Hitherto in Europe students have been obliged to depend upon the historic statues of Japan for an idea of the style of the Chinese T'ang dynasty. This dynasty is regarded in Japan as representing the highest ideal of art, and upon it is founded the classical Japanese style. Now for the first time an original statue of Chinese work, on a scale which is nearly monumental, has been brought to Europe. It is clearly a portrait figure, perhaps shewing some well-known Buddhist dignitary of the time in the character of a Lohan, or apostle; but there is not only a complete absence of conventionality in the modelling of the head and face, but so personal a character, that it is almost certain that we have to deal here with a lifelike portrait of a personage of distinction in the Buddhist hierarchy of the 9th century.

Purchased with the help of contributions from the National Art-Collections Fund and from private sources.

(9.) *Oriental and Ethnographical:*—

Asia.—Bronze votive axe, inlaid with silver, representing a tiger attacking an ibex and being attacked by a boar, the back of which forms the cutting edge; probably Bactrian work. *Presented by Henry Oppenheimer, Esq., through the National Art-Collections Fund.* (See *Proceedings of the Society of Antiquaries*, Vol. XXV., p. 56, and *Man*, 1914–11.)

Bronze figure of a monstrous winged lion, cast and finished by chiselling, probably Bactrian, and a stone bowl-shaped disc, with a lion and buffalo confronted in relief, from the Helmund

River, Afghanistan. *Presented by the National Art-Collections Fund.* (For the lion, see *Essays and Studies presented to William Ridgeway,* p. 261.)

Specimens of Biloch pottery, and a glazed pottery lamp from Seistan. *Presented by Lt.-Col. R. A. E. Benn.*

A bronze duck on a hexagonal base. *Presented by R. Blumenfeld, Esq.*

A series of annular and penannular brooches from India. *Presented by Mrs. Rivett-Carnac.* (See *Journal of Indian Art,* July 1913.)

An ethnographical series from the Lakher hill-tribes, Burma.

A fire-devil and personal ornaments from Tibet.

Specimens of clothing from the Tungus and two bark magical manuscripts from the Battak of Sumatra.

Bronze spoon, tweezers, and appliqué ornaments from Korean graves. *Presented by G. Eumorfopoulos, Esq.*

A metal figure of Shou Lao, god of longevity, covered with a mosaic of lacquer and realgar, Chinese. *Presented by J. Sparks, Esq.*

Two bronze mirrors, T'ang period.

A series of miniature Japanese *kimono.* *Presented by Hisayoshi Kawamura and Washio Nakamura.*

A suit of Japanese armour of the 18th century. *Presented by Sir C. Hercules Read.*

Two large standing figures of stone, Chinese, of the Ming dynasty.

Africa.—A large series of ethnographical objects, including a number of stone implements, from various Mohammedan and Pagan tribes of Northern Nigeria. *Presented by Mr. and Mrs. C. L. Temple.*

An important ethnographical series from Abyssinia, including a number of objects from the Pagan tribes of the interior, collected by the donor. *Presented by Louis Clarke, Esq.*

A hide shield with silver-gilt mounts and a velvet "lemd," from Abyssinia. *Presented by The Rt. Hon. Sir Edward Grey, Bart., K.G.*

A series illustrating the methods employed by the Ancient Egyptians in the manufacture of alabaster vases and stone beads. *Presented by the British School of Archæology in Egypt.*

A type-series of stone implements from the French Sudan *Presented by Dr. F. de Zeltner.*

A wooden figure from Mendi-land Sierra Leone.

A series of stone and glass beads, collected on the Gold Coast. *Presented by Dr. F. W. Moir.*

A number of objects from various parts of Africa, including two fine bronze plaques with figures in relief from Benin. *Presented by the Secretary of State for Foreign Affairs.*

A large fan, with amuletic inscriptions in Arabic, from Nigeria. *Presented by Colonel Beddoes.*

A wooden fetish mask from the Yakoko Pagans, Yola Province, Nigeria. *Presented by J. Pollard, Esq.*

A wooden mask covered with hide; from the Munchi country, Nigeria.

A series of ethnographical objects, chiefly connected with pagan worship from Nigeria.

A Series of ethnographical objects from the Bushongo, Bashilele, and Baluba peoples of the Belgian Congo. *Presented by Mrs. Marguerite Roby.*

A carved wooden staff from Uguha, and a neck-ornament of hippopotamus-ivory from Ujiji.

A series of obsidian flakes from Kikuyu, East Africa Protectorate. *Presented by C. W. Hobley, Esq., C.M.G.*

A collection of weapons and other objects from various tribes in the Kenia Province, East Africa Protectorate. *Presented by Lieut. G. S. J. Orde-Browne.*

A set of divining-bones from the Wanki District, and two Mashukolumbwe pipes. North-west Rhodesia; and a knife from Mashonaland. *Presented by F. W. T. & J. W. Posselt, Esqs.*

A series of stone implements from Broken Hill Mine, and a number of fragments of oriental pottery from the ruined sites, Rhodesia. *Presented by Sir C. Hercules Read.*

Oceania.—A large and important collection illustrating the ethnography of the mountain tribes of the interior behind Port Moresby, British New Guinea. *Presented by R. W. Williamson, Esq.*

An ethnographical series comprising objects from various islands in Melanesia, principally New Caledonia.

An ethnographical series including objects from Australia, New Guinea, New Britain, Solomon Islands, New Hebrides, Fiji, Tonga, Samoa, and New Zealand.

A carved wooden club of remarkable form, probably for splitting bread-fruit, from Tonga.

A dried human head, showing tatued decoration, from New Zealand. *Presented by Miss Bacot.*

A model canoe and a carved wooden bowl, from New Zealand. *Presented by Miss Godley.*

Two feather cloaks from New Zealand. *Presented by C. H. Waterlow, Esq.*

America—A series of stone implements from Greenland, *Bequeathed by the late Edward Whymper, Esq.*

Specimens of shell beads from Yale and Lytton, British Columbia. *Presented by the Rev. H. J. Underhill.*

An ancient obsidian breast-ornament, of remarkable form and workmanship, and an obsidian spear head, from L. Chapala Jalisco; an obsidian spear head from Azcapotzalco, Mexico;

a large and important series of embroidered textiles, chiefly from the Zapotec and Mazatec of Oaxaca, Mexico. *Presented by J. Cooper Clark, Esq.*

A native loom from the Mazatec country, Mexico.

Stone figure of a maize-deity, found at Minatitlan, near Vera Cruz, Mexico.

A collection of ancient pottery from graves in the neighbourhood of Buenos Aires, Costa Rica.

A large shell pendant, encrusted with mosaic of coloured shell and malachite in the design of a human head with head dress. This, one of the largest and finest specimens known of ancient Peruvian mosaic work, was discovered in an early grave in the valley of Nasca. A gold head ornament, from an ancient grave at Huacho. And a large tapestry, woven in native style, but with an escutcheon bearing a Spanish coat of arms in the centre and the motto SI DIOS ES POR NOS QUIEN SERA CONTRA NOS; obtained in Cuzco. This tapestry was probably made for some immigrant Spanish family not long after the conquest (See *the Burlington Magazine*, Vol. XXIII., p. 146). *Presented by Louis Clarke, Esq.*

A large vase with painted design of tapestry workers; from an ancient grave at Trujillo, Peru. *Presented by Herbert Gibson, Esq.*

A pottery vase with design in colours of humming birds and flowers; from an ancient grave in the Nasca valley, Peru. *Presented by Colonel F. H. Ward.*

A pendant and beads of turquoise, and a pottery disc, from ancient graves at Chañaral, Chile; together with specimens of unworked turquoise from the same locality. *Presented by Oswald H. Evans, Esq.*

A shrunk human head, ornamented with feathers and humming bird skins; from the Jivaro Indians of Ecuador. *Presented by the Rt. Hon. the Earl of Plymouth.*

A series of feather ornaments from natives of the upper Purus river. *Presented by W. H. Hildreth, Esq.*

Christy Collection.

During the year the Trustees have acquired by donation the following objects, which have been transferred to the Trustees of the British Museum:—

(1.) *Ethnography of Africa:—*

A writing-board from Algiers. *Presented by Mrs. J. D. Paul.*

An ethnographical series from Mendiland, Sierra Leone *Presented by Philip Norman, Esq.*

A perforated quartz pebble, found in the earth 20 miles north of Accra, Gold Coast. *Presented by Sergt. Palmer, R.E.*

A state umbrella, formerly belonging to the chief of Ejissu, Ashanti; taken during the expedition. *Presented by Capt. C. H. Armitage.*

A stone celt, found in gravel on a 50 ft. cliff at Sekondi, Ashanti. *Presented by S. H. R. Beard, Esq.*

A carved ivory tusk, from Benin. *Presented by Louis Clarke, Esq.*

A hat and an ornamental "tobe," from Northern Nigeria. *Presented by H. G. D. Pudsey, Esq.*

An ethnographical series from Angola. *Presented by Mrs. Newton.*

An ethnographical series from Bukedi, Uganda Protectorate. *Presented by R. B. Curwen, Esq.*

A head-dress from the Lango tribe, Uganda Protectorate. *Presented by G. P. V. Gervoise, Esq.*

A "simé" from the country inland of Mombasa, and a quiver and arrows from Bagamoyo, East Africa. *Presented by L. F. Brady, Esq.*

A lump of slag and an iron implement, found about 40 miles south-east of Buluwayo, Rhodesia. *Presented by F. E. B. Fripp, Esq.*

A series of jasper flakes from the Kalahari desert, half-way between Prieska and Uppington. *Presented by C H. Newberry, Esq.*

(2.) *Ethnography of Asia:—*

Specimens of clothing and a woman's work-bag, from the Samoyed tribes. *Presented by R. Durand, Esq.*

Sandals from Bilochistan; boots and a whip from Chitral. *Presented by M. Longworth Dames, Esq.*

A series of model fish-traps, from Burma. *Presented by C. E. Scobell, Esq.*

A back-ornament of wood fringed with hair, from Assam. *Presented by H. B. C. Hill, Esq.*

Four stone implements, from the Chittagong Hills. *Presented by the Rev. W. J. L. Wenger.*

A wooden pillow, a piece of bark-cloth and two encrusted teeth, from the Nicobar Islands. *Presented by E. H. Man, Esq.*

An ethnographical series from the tribes of British North Borneo. *Presented by G. Cathcart Wooley, Esq.*

(3.) *Ethnography of Oceania:—*

A pendant of human hair, worn by the Munderry natives of Western Australia. *Presented by H. G. Beasly, Esq.*

Eight spears, a bark basket and personal ornaments, from North Australia. *Presented by Dr. W. Collings Dawson.*

Six stone implements from a deserted camp, Dinninup, Upper Blackwood, Western Australia. *Presented by J. M. Whistler, Esq.*

Three obsidian knives and two basket-bags, from the Admiralty Islands. *Presented by A. W. F. Fuller, Esq.*

An implement of flaked stone, found, together with two others, at Malekula, New Hebrides. *Presented by Norman H. Hardy, Esq.*

Clubs from the Marquesas and Fiji Islands, and a ceremonial paddle from High Island. *Presented by W. L. Hildburgh, Esq.*

(4.) *Antiquities and Ethnography of America :—*

A shell pendant in the form of a human head, from Mexico. *Presented by Miss Thornton.*

Two small stone celts found in a kitchen-midden in Jamaica. *Presented by G. C. Longley, Esq.*

A vase of black pottery, coast style, from Peru. *Presented by L. F. Brady, Esq.*

A pottery vase found in a grave, Peru. *Presented by Mrs. Newery.*

Pottery fragments and quartzite flakes, from ruins near Chilecito, La Rioja, Argentine Republic. *Presented by W. R. Schoeller, Esq.*

Specimen of "matć," with carved gourd and metal tube for drinking, from Paraguay. *Presented by Prof. S. G. Shattock.*

C. Hercules Read.

Department of Coins and Medals.

I.—*Registration and Arrangement.*

1. *Greek Series:*—

Eight hundred and one coins of various parts of the Greek world, recently acquired, have been registered and 809 incorporated, while 60 coins previously set aside as duplicates have been re-incorporated.

The early electrum coinage of Asia Minor, the smallest denominations of Athens, and the series of the "Trésor d'Auriol" class have been transferred into trays protected with glass lids. The satrapal coinage of Babylon has been re-arranged according to Imhoof-Blumer's classification, and all the gold and silver issues in the name of Alexander the Great have been re-arranged under symbols and monograms in alphabetical order, the gold being transferred to a more convenient cabinet. The Bactrian series has been re-arranged under monograms instead of denominations as formerly, the Ptolemaic according to the classification in Svoronos' work *Νομίσματα τῶν Πτολεμαίων*, to which a reference number has been placed under each coin. Thick heading-cards have been written for the Ptolemaic, Syracusan, Seleucid, Pamphylian and Pisidian series and a concordance of the coins described in the Catalogue under Elis and Sicyon has been drawn up to indicate their present position in the trays. The Mysian series as far as Cisthene has also been examined and references to the Berlin Corpus inserted. In the Cyrenaic series casts and electrotypes of coins not in the British Museum have been temporarily incorporated in the collection for the purposes of study and the whole has been expanded into two cabinets.

Two hundred and ninety-six casts have been incorporated in the collection of casts of coins not in the British Museum.

The following collections have been examined and a selection made for purchase (*a*) Four dealers' stocks of Cyrenaic coins, (*b*) three collections submitted by Levantine dealers, (*c*) various Sale Catalogues British and Continental.

The MS. Bibliography of Numismatics has been brought up to date, and the Card Index of Coins arranged according to types has so grown as to necessitate expansion into another cabinet. An index of the city names in the genitive case on Greek coins, arranged according to terminals to assist in identification, has been completed, to which a supplement of Doric genitives has been added.

Considerable selections of casts have been made for foreign scholars.

2. *Roman and Byzantine Series:*—

Two hundred and ninety-six coins, Republican and Imperial, have been registered and 298 incorporated.

The copper of the 1st, 2nd and 3rd centuries after Christ has been carefully examined and re-arranged, and the coinage of the Constantinian period has also been re-arranged in the light of modern researches, heading cards bearing the emperor's name, types, mintmarks and—where possible—dates being added. The Wigan collection of Roman brass has been incorporated in the general collection.

A beginning has been made with the examination and arrangement of duplicates and of casts of coins not in the British Museum.

The coins found during various excavations at Wroxeter have been looked through and identified and the same has been done for two collections in the Gravesend and Southampton Museums.

A selection of Roman portraits on coins and medallions for electrotyping has been made for the Departmental Exhibition, and another for the Society of Roman Studies.

A dealer's stock of 2nd brass has been inspected and a selection made, and many sale catalogues British and foreign have been examined with a view to acquisitions.

The Bibliography of Roman Numismatics has been brought up to date and progress has been made with the Card Index of Coin-types.

3. *British and Colonial Series:—*

Six hundred and sixty-five coins, tokens and medals have been registered and 680 incorporated, and 320 casts have been incorporated in the collection of casts of coins not in the British Museum.

The coins of Edward I., II. and Henry III. and of Charles I. have been re-arranged and expanded, additional heading cards being inserted, while the whole series from Edward IV. to Henry VII. has been arranged in more convenient cabinets. The ordinary tokens and "medley" tokens of Canada have been re-arranged according to the general classification in use. The English medals have been in part transferred into new cardboard trays.

A further examination of the Steppingley hoard of Henry III. pennies has been made, and the collection bequeathed by Caroline Lady Ramsay examined, while several sale catalogues have been studied with a view to acquisitions. A selection has also been made from a collection of Canadian tokens offered to the Museum.

4. *Mediæval and Modern Series:—*

Four hundred and forty coins medals and jetons have been registered and 576 incorporated.

The collation of the proof sheets of H.M. the King of Italy's Corpus of Italian coins with the British Museum Collection has been continued and the series of Mantua has been expanded. The Italian medals of the 15th and 16th centuries have been

transferred into cardboard trays in more convenient cabinets and the series lettered throughout. Progress has been made with the card index of foreign personal medals after 1600, in the course of which the whole series has been expanded and made more accessible.

The following collections have been examined with a view to purchase or presentation: (*a*) a dealer's stock of mediæval Italian coins, (*b*) several small collections of miscellaneous coins and medals, (*c*) the bequest of Caroline Lady Ramsay.

5. *Oriental Series:*—

Two thousand four hundred and forty-three coins have been registered and 2,316 incorporated.

The incorporation of the Van den Bergh gift of 2,556 coins has been completed; the series of the Pathan Sultans of Delhi has been expanded from one to two cabinets and that of the Moghul Emperors of India from $2\frac{1}{2}$ to 5 cabinets. In both series the coins of each reign have been classified under mints. Additional heading cards have been written and inserted in the series of the Moghuls and of the Shahs of Persia, and the coins of Mysore and of other Native States of India have been studied and rectifications made. The Sassanian series has been examined on behalf of a foreign scholar and casts made and sent of all rare or unpublished coins. Three small collections have been examined and a selection made.

6. *General Arrangement:*—

The summary inventory of the contents and position of the cabinets has been checked.

II.—*Catalogues.*

1. Catalogues of Greek Coins.

Coins of Palestine (Galilæa, Samaritis, and Judæa), by G. F. Hill.

Sheets A–Ll of the text and slips 1–31 of the Introduction have been passed for press; further sheets and slips have been sent for revise. An index has been compiled for the introduction and the text as far as paged.

Coins of Cyrenaica, by E. S. G. Robinson.

The early coins of the Ptolemies, struck in Rhodes, Cos and the Cyclades, the coins of the early Seleucids and coins of Crete and Syracuse have been carefully examined, in view of their relations to coins of Cyrenaica. In the series of Cyrenaica itself, the silver coinage of the 3rd Century B.C. has been re-arranged, casts of coins not in the collection have been inserted and the succession of a series of magistrates has been determined by the comparison of their dies.

Coins of Arabia, Mesopotamia, etc.

A special bibliography of coins of this district has been compiled, and 87 coins have been weighed.

2. Catalogue of Roman Coins.

Coins of the Early Roman Empire, by H. Mattingly.

Four hundred and sixty coins have been weighed and described. A close study has been made of the coinage of Augustus, Nero, and Galba and his successors, with a view to determining time and place of minting of various series. The brass of the 1st century after Christ has been re-arranged; a classification of finds of Imperial coins has been begun, and a rough draft of a section of the Introduction (on the period of Galba) has been written.

3. Catalogue of English Coins.

Coins of the Norman Kings, by G. C. Brooke.

One hundred and twelve coins have been weighed and described. Information about the provenance, history and meaning of particular coins has been collected from various sources, detailed notes on epigraphy have been made with a view to determining the order of types, the coins of the Norman Kings have been carefully examined for evidence of the methods of die-production then in use, progress has been made with the attribution of irregular issues of Stephen, and the Anglo-Saxon Laws and the Charters of William I. and II. have been searched for information about coins.

A large part of the Introduction has been written, including the Sections on Finds and Epigraphy, and casts of Pl. I–LVI. have been mounted.

4. Catalogue of Oriental Coins.

Coins of the Guptas, by J. Allan.

The Introduction has been revised and continued, and 624 tickets for the Catalogue have been written and placed under coins. Sheets A–T have been passed for press, and of the Introduction slips 1 to 30 are in type. The 24 Plates have been passed for press.

III.—*Acquisitions.*

The total number of coins and medals added to the Department during the year 1913 was 2,757, of which 97 were gold, 1,717 of silver, 871 of bronze, and 72 of other metals.

The following table shows the numbers of the new acquisitions, classified according to the several series to which they belong:—

Class.	Gold.	Silver.	Bronze.	Other Metals, etc.	Total.
Greek	5	613	150	3	771
Roman	8	37	246	—	291
British and Colonial	32	460	163	37	692
Mediæval and Modern	33	236	220	27	516
Oriental	19	371	92	5	487
Total	97	1,717	871	72	2,757

Of the above, 1,328 have been presented, viz., 68 of gold, 754 of silver, 448 of bronze, and 58 of other metals.

The following is a list of benefactors to the Department of Coins and Medals during the past year :—

His Majesty Victor Emmanuel III., King of Italy; H.R.H. the Duke of Cumberland, through K. K. Regierungsrat Eduard Fiala; the American Numismatic Society; the Bombay Branch of the Royal Asiatic Society; the City of Nottingham Arts Museum; the Deputy Master of the Mint; the Egypt Exploration Fund; the Government of Behar and Orissa; H.M. First Commissioner of Works; Generalverwaltung der Königlichen Museen, Berlin; Koninklijke Akademie van Wetenschappen, Amsterdam; the National Art-Collections Fund; the Resident at Jaipur; Sociedad Economica de Amigos del Pais de la Habana, Cuba; the Trustees of the National Portrait Gallery; E. Heron Allen, Esq.; H. F. Amedroz, Esq.; Sir Athelstane Baines, C.S.I.; A. H. Baldwin, Esq.; E. M. Beloe, Esq.; Frederick Cavendish Bentinck, Esq.; His Excellency General A. L. Bertier-de-la-Garde; Colonel Gerard Boyle; F. Bowcher, Esq.; L. E. Bruun, Esq.; W. H. Buckler, Esq.; Rev. F. M. Burton; Captain J. S. Cameron; Mr. Chai Chang Wu; Miss K. Clarke; Colonel E. R. Conolly; the late Lieut.-Colonel R. Manifold Craig, R.A.M.C.; C. Dack, Esq.; R. Dalton, Esq.; Miss Florence Davidson; Campbell Dodgson, Esq.; J. C. J. Drucker, Esq.; F. J. Dryhurst, Esq., C.B.; Evelyn Grant Duff, Esq., C.M.G.; MM. L. Duval et L. Janvier; Mrs. Arundel Esdaile; General Giuseppe Ettorre; Miss Helen Farquhar; A. Felsenthal, Esq.; Lionel L. Fletcher, Esq.; Dr. M. Gaster; Commendatore Francesco Gnecchi; H. A. Grueber, Esq.; Dr. Georg Habich; F. W. Hasluck, Esq.; Major W. N. Hay; A. G. Heaton, Esq.; J. R. Henderson, Esq.; Miss Hewett; W. E. Hidden, Esq.; G. F. Hill, Esq.; W. R. Hubbard, Esq.; Professor H. L. Hutt, B.S.A.; T. A. Joyce, Esq.; Alfred Jones, Esq.; the Hon. A. Keppel; the late Sir R. Hamilton Lang, K.C.M.G.; L. A. Lawrence, Esq.; Dr. Philip Lederer; Professor J. Leite des Vasconcellos; S. Littlejohn, Esq.; Alexander Mann, Esq.; H. Mattingly, Esq.; L. Messenger, Esq.; Sir George Meyrick, Bart.; P. E. O'Brien-Butler, Esq.; H. Oppenheimer, Esq.; M. Alexey V. Oreshnikov; J. Edge Partington, Esq.; W. R. Paton, Esq; Mrs. J. D. Paul; S. E. Pears, Esq., I.C.S.; John R. Preece, Esq.; M. S. Pritchard, Esq.; H. L. Rabino, Esq.; S. Raffaeli, Esq.; the late Caroline Lady Ramsay; W. T. Ready, Esq.; Sir Hercules Read, P.S.A.; John Robinson, Esq.; Maurice Rosenheim, Esq.; L. Ruzicka, Esq.; G. L. Shackles, Esq.; Heer van Sonsbeeck; H. Symonds, Esq.; L. O. Th. Tudeer, Esq.; Henry Van den Bergh, Esq.; R. Whittall, Esq.; J. W. Wilson, Esq.; P. Woods, Esq., C.B.

IV.—*Remarkable Coins and Medals.*

1. *Greek Series :—*

(*a*) *Europe :—*

Italy.—Campania.—Fistelia.—A silver obol (8 grs.) of the first half of the fourth century; *obv.* Head of Athena r.; *rev.*

Fore-part of human-headed bull r.; inscription in Oscan characters.

Neapolis.—8 silver didrachms of the fourth-third centuries; *obv.* Head of the nymph Parthenope; *rev.* Human-headed bull.

Presented by the late Sir Robert Hamilton Lang, K.C.M.G.

Calabria. — Tarentum. — A silver "horseman" stater (100·9 grs.) of the period 272–235 B.C., with the magistrate's name *Heracletos* (Evans VIII. G2).

Lucania.—Metapontum.—A silver stater (116 grs.) of fine style of the fourth century B.C.; *obv.* Head of Persephone l.; *rev.* Ear of barley; symbol, alabastos.

Thurium.—A silver didrachm of reduced weight (98·8 grs.) but with the old fourth century types (head of Athena in Attic helmet, *rev.* ΦA between the legs of the bull).

A silver didrachm (96·4 grs.) of the third century; *obv.* Head of Athena r. in crested Corinthian helmet; *rev.* Bull charging r.; above, owl flying. (Cp. Evans, *Horsemen of Tarentum*, p. 228, no. 1.) Found at Taranto in 1912.

Bruttium.—Caulonia.—A silver didrachm (113 grs.) of the early fifth century, struck over an archaic stater of Corinth.

Croton.—A silver quarter-stater (27·4 grs.) of the earliest period (550–480 B.C.), *obv.* Tripod, *rev.* Tripod incuse.

A silver diobol (13·2 grs.) of the fifth century; *obv.* Tripod, *rev.* Eagle and value-mark OO.

Rhegium.—A silver hemiobol (4·4 grs.) of the fifth century; *obv.* Lion's scalp, *rev.* H within O.

Sicily.—Gela.—A rare silver tetradrachm (261·3 grs.) of the fifth century; *obv.* Four-horse chariot, *rev.* Fore-part of human-headed bull with a wreath round his neck.

Messana.—A silver tetradrachm (265·5 grs.) of the fifth century B.C.; *obv.* Mule-chariot, *rev.* Hare, with the letter B in the field.

Presented by Sir Athelstane Baines, C.S.I.

Syracuse.—A silver tetradrachm (268·8 grs.) of the time of Gelon I.; *obv.* Chariot, *rev.* Head of Arethusa surrounded by dolphins.

Presented by the late Sir R. Hamilton Lang, K.C.M.G.

Pannonia.—A silver stater (156·5 grs.); *obv.* Human head r., *rev.* Horse l., with wheel above and traces of inscription below.

Presented by Alexander Mann, Esq.

Thraco-Macedonian.—The Orrhescii.—A silver didrachm; *obv.* Centaur carrying nymph, *rev.* Incuse square quartered. Differing from the usual series in its low weight (122·5 grs.), most of the coins like it being struck on the Babylonic standard.

Thrace.—Abdera.—A silver triobol (42·8 grs.) of the late fifth century, with the name of the magistrate *Hieromnemon* (*Berlin Corpus* II., p. 75, no. 112).

Mesembria.—A bronze coin (29·1 grs.) of the fourth century; *obv.* Helmeted head to r., *rev.* Pelta-shaped shield (cp. *Berlin Catalogue* I., 189).

Macedon.—Alexander the Great.—Two gold staters from the hoard found at Dali, in Cyprus, by the late Sir R. H. Lang.

89 silver tetradrachms from the hoard found at Damanhur, in Egypt.

A silver drachm (64·6 grs.) of unusually fine style of the usual types; symbol, star between crescents.

Beroea.—A bronze coin of the Macedonian Koinon (second Neokorate); *obv.* Head of Alexander the Great, *rev.* Two temples (cp. *Nomisma* 1., Pl. III. 5).

Corinth.—A silver stater (128·8 grs.) of the period 400–350 B.C.; *obv.* Pegasus r., *rev.* Head of Athena r.; *symbol,* pileus and letter **E**.

Two silver staters of the fourth century B.C., of the usual types (symbols, amphora and Victory).

Presented by the late Sir R. Hamilton Lang, K.C.M.G.

Melos.—Three specimens of the rare staters of the fifth century coinage, before 416 B.C., from the hoard discovered in 1908 (*Revue Numismatique,* 1909, pp. 188ff.). All three have the same obverse type, a quince; they differ in their reverses, which bear respectively a triskeles of human legs (216 grs.), a wheel (212·1 grs.), and a crescent (212·1 grs.).

Presented by Henry Oppenheimer, Esq., F.S.A.

Spain.—Carthago Nova.—A rare silver tridrachm of the Barcid period (221–209 B.C.), weighing 172·3 grs. *Obv.* Beardless head of Heracles, with club over shoulder. *Rev.* African elephant. See *Berichte der k. preuss. Akad. der Wiss.,* 11 June 1863, pp. 248ff.

(*b*) *Asia and Africa*:—

Ionia.—A rare electrum one-third stater of the Milesian standard (73·0 grs.) of an uncertain mint; *obv.* Pegasus, *rev.* Two incuse squares. Of this piece only two other specimens are known.

Presented by W. H. Buckler, Esq.

Colophon.—A silver drachm (52·5 grs.) of the fourth century B.C.; *obv.* Head of Apollo l., *rev.* Lyre; magistrates' name *Aristeid(es).*

Erythrae.—A silver drachm (55·4 grs.) of the fourth century B.C., with the magistrate's name *Diopeithes.*

Presented by Sir Athelstane Baines, C.S.I.

Lydia.—Hypaepa.—A bronze coin of Antoninus Pius, with the temple of the goddess Artemis-Anaitis.

Presented by W. H. Buckler, Esq.

Nysa.—A silver cistophorus (160·4 grs.) of the year 6 of the Asian era (129–8 B.C.); magistrate's name Δη. ἱερέως.

A bronze coin of the Emperor Valerian; *rev.* Prize crown inscribed Θεογάμια Οἰκουμενικά, and magistrate's name ἐπὶ γρ. Μ. Αὐρ. Λαιανοῦ.

Philadelphia in alliance with Smyrna.—A bronze coin of Commodus, with the name of the magistrate *Oresteinos.* This coin proves that the word Ὀρεστεινῶν, which was read on another specimen and supposed to indicate the existence of a mint called Oresteia, is a mistake.

Tripolis.—Fifteen bronze coins of Imperial date.

Presented by W. R. Paton, Esq.

Cyprus.—394 silver coins of Citium, Amathus, Paphos, and Salamis, all small denominations, from the Dali hoard discovered in 1869, representing the small currency of the island towards the end of the fifth century B.C.

Presented by the late Sir Robert Hamilton Lang, K.C.M.G.

Lapethus.—A bronze coin of King Praxippos, who was deposed by Ptolemy in 313–2 B.C. *Obv.* Head of Apollo. *Rev.* Krater.

Presented by the late Lt.-Col. R. Manifold Craig, R.A.M.C.

Syria.—*Seleucus I.*—A silver tetradrachm (259·5 grs.) with the types of Alexander the Great and the mint-marks **ΑΣΤ** and a monogram in the field, and **Α** under the throne.

Antiochus II. or Antiochus Hierax (246–227 B.C.).—A silver tetradrachm (262 grs.); *rev.* Apollo on omphalos; in exergue, humped bull (?).

Seleucus III. (226–223 B.C.).—A silver tetradrachm (260·5 grs); *rev.* Apollo on omphalos; in field l., uncertain symbol.

Timarchus (162 B.C.).—A silver tetradrachm (256 grs.); *obv.* Head of Timarchus r. helmeted, *rev.* Dioscuri on horseback; inscr. [Βασιλ]έως Μεγάλου Τιμάρχου. This is the third known specimen of the tetradrachm coinage of this usurper, the other specimens being that which was restruck by Demetrius and Laodice (British Museum Catal. *Seleucid Kings*, p. 50), and one formerly in the E. F. Weber Collection. The types and style of title are borrowed from Eucratides, of Bactria, on one of whose coins it is possible that this specimen was actually struck.

Paltos.—A bronze coin of Julia Maesa or Mamaea; *rev.* A temple of four columns containing the seated figure of the City-goddess, with a half-figure of a swimming river-god at her feet.

Phœnicia.—*Sidon.*—*Strato I.* (370–358 B.C.).—A bronze coin (38 grs.); *obv.* Head of King Strato r., *rev.* Galley, and date 12.

Presented by W. R. Hubbard, Esq.

Tyre.—A silver quarter-stater or half-shekel (49·3 grs.) of the first coinage (second half of the fifth century). *Obv.*

Dolphin; Phœnician inscription *ma-hatsi* ("half") followed by the date 11 (?). *Rev.* Owl with crook and flail.

Cyrenaica.—Barce.—An archaic silver tetradrachm of Attic standard (249 grs.) and two silver tetradrachms of Phœnician standard (201·6 and 196·4 grs.), all of usual types; *obv.* Bearded head of Zeus Ammon, *rev.* Silphium plant.

Cyrene.—A gold stater of the fourth century; *obv.* Four-horse chariot driven by the Nymph Cyrene, *rev.* Zeus seated (133·6 grs.) with magistrate's name *Iasonos.* Another with similar obverse; *rev.* Zeus Ammon pouring a libation with magistrate's name *Poliantheus* (132·7 grs.). Two silver tetradrachms of Phœnician standard; *obv.* Bearded head of Zeus Ammon with the magistrate's name *Nikis: rev.* Silphium plant (201·6 and 203 grs.); another of slightly earlier style of the same types without magistrate's name (201·5 grs.) Two tetradrachms of similar types and of Rhodian weight, one with symbol cornucopiæ (203·5 grs.), the other with symbol crab and monogram reading **KYPH** (222·6 grs.). Three didrachms of Rhodian standard; *obv.* Head of beardless Ammon, *rev.* Silphium plant, one with symbol star (117·4 grs.), two with symbol cornucopiæ (119 and 115·1 grs.). One didrachm of Rhodian standard; *obv.* Head of beardless Ammon resembling Ptolemy Soter, *rev.* Silphium plant and inscription **ΒΑΣΙ** (λέως) (110·7 grs.).

2. *Roman Series:—*

Republic.—A quinarius of the moneyer Tampilus (c. 196–173 B.C.). *Obv.* Head of Roma r. **V.** *Rev.* Roma and monogram of **TAMP.** The Dioscuri on horseback.

From the Prowe Collection.

A denarius of Sextus Pompey, struck in Spain, 45–44 B.C. *Obv.* Head of Pompey the Great r.; **SEX MAG PIVS IMP.** *Rev.* **PIETAS.** Pietas standing l.

From the Prowe Collection.

An aureus of the moneyer C. Vibius Varus, struck c. 38 B.C. *Obv.* Head of Mark Antony r. *Rev.* Two right hands clasped. One of a series of coins showing on the obverses the heads of the three triumvirs, Antony, Octavian, and Lepidus.

From the Prowe Collection.

Empire.—Augustus.—A denarius of the moneyer L. Caninius Gallus, struck at Rome c. 14 B.C.; *rev.* A bisellium with the apparitor's staff on the l.

From the Prowe Collection.

Germanicus.—A double denarius (wt. 113 grs.), struck by Germanicus as proconsul in the East, in the years 18–19 A.D. Only one other specimen of this coin is known, and is in the Berlin Cabinet. Apart from its rarity, the coin has great historical interest, in that it commemorates the coronation of Artaxias at Artaxata as king of Armenia by Germanicus. The place of minting is not quite certain, but is probably Caesarea in Cappadocia.

Septimius Severus.—An interesting aureus, with the *rev.* FVNDATOR PACIS, Emperor, veiled, standing l., holding branch, probably struck in the years 200 to 201 A.D. The type alludes to the establishment of peace, after the conclusion of the civil wars against Niger and Albinus and the Parthian war.

Presented by J. R. Preece, Esq.

Honorius.—A gold solidus struck at Ravenna, and found at Richborough Castle.

Presented by H.M. First Commissioner of Works.

Byzantine.—Basiliscus and Marcus.—A solidus, with the *rev.* type SALVS REIPVBLICÆ Basiliscus and Marcus seated facing on throne, struck in the years 476–477 A.D., during which the usurper held Constantinople. The reverse type is new to the collection.

Artavasdes and Nicephorus (A.D. 742?–744?). A silver siliqua struck at Constantinople.

In connexion with the Roman Series, mention should be made of the extensive series of casts of Roman medallions, illustrating the work "I Medaglioni Romani," by Comm. Francesco Gnecchi, presented by the author.

3. *British and Colonial Series:*—

(*a*) Coins and Tokens:—

A selection of early British coins (gold, silver, bronze, and potin), including some unpublished varieties, from the excavation at Hengistbury Head.

Presented by Sir George Meyrick, Bart.

A unique gold coin of Offa, king of Mercia 757–796, from the P. W. P. Carlyon-Britton sale, lot 269. This coin has been one of the most famous of the English Series since its acquisition in Rome by the Duc de Blacas in 1841. The importance and interest of the coin lie largely in the fact that it is the first gold coin that can be attributed to any Anglo-Saxon king. The introduction of the silver penny by this same king, Offa, following the example of Pepin le Bref, was the foundation of one of the most famous of the world's currencies. If this gold coin illustrates an attempt to establish a gold currency, the attempt was a failure; but it is more probable that the gold coinage was issued for some special purpose. The opinion was long held that this piece belonged to an issue of gold struck expressly for the purpose of the yearly payment to the Pope of 365 mancuses in accordance with the King's vow, but the use of Muslim types in unmodified form makes it unlikely that the coin can have been struck for this purpose. The designs of both obverse and reverse consist of Arabic inscriptions closely imitating those of an Arabic dinar of the year 774, but differing from them in style of lettering and in the dotted border, and most notably in the addition of the words OFFA REX which appear upside down within the central Arabic inscription of the reverse. The Arab dinar, which with the besant formed the main gold currency of the world at this

period, probably came to England through relations with Charlemagne, whose intercourse and exchange of lavish gifts with Haroun-al-Raschid must have introduced a very large number of Arabic gold coins into circulation throughout the European continent. To both numismatists and historians, therefore, this unique gold coin of Offa is, perhaps, the most interesting piece in the whole English Series.

Purchased with the help of Henry Van den Bergh, Esq., Prof. W. H. Woodward, Mrs. Eustace Smith, Edward P. Thompson, Esq., Horace Sandars, Esq., F.S.A., Alfred A. de Pass, Esq., F. A. Walters, Esq., F.S.A.

Some early English pennies from the E. K. Burstal Collection, including rare coins of Cnut struck at Ilchester, of William II. at Southwark, of Henry I. at London and Sudbury.

Some Anglo-Saxon pennies of the 10th and 11th centuries, including one of Edward the Confessor struck at the rare mint of Romney and another of the same reign showing the ninth type (*see* P. W. P. Carlyon-Britton in *Num. Chron.* 1895, pp. 179 ff.) overstruck on the seventh.

An unpublished penny of the fifth type of William I. struck at Warwick. *Presented by A. H. Baldwin, Esq.*

A unique penny of Henry I. of the Ilchester mint; another of the same king's twelfth type (*Hawkins*, 264) struck at Dorchester.

A large selection of pennies of the second issue of Henry III., from the Steppingley find.

Twelve rare coins from the F. A. Walters collection, including a York farthing of Edward I., four half-groats and two pennies of London of the last issue of Edward III., a unique half-groat of Henry IV. of the light coinage, a London transitional groat of Henry IV.–V. and another from the same obverse die with a mullet added on the king's breast, a London farthing of Henry V., a halfpenny of the rose and sun issue attributed to Edward V.

Presented by Alexander Mann, Esq.

Seven gold and five silver coins from the F. A. Walters collection, including half-nobles of Edward III. (Calais), Richard II., and Henry VI., nobles of Henry IV. and Henry V., a half-sovereign (probably unique) of the first issue of Elizabeth, groats of Edward I., Henry VI., and Henry VII.

Presented by Henry Van den Bergh, Esq., through the National Art-Collections Fund.

A very rare half-angel of the first issue of Henry VII., from the F. A. Walters collection.

Presented by the National Art-Collections Fund.

Two rare gold coins, unpublished varieties of the angel and half-angel of Henry VII. from the F. A. Walters collection.

Presented by Miss Helen Farquhar.

A groat of Henry VII. with Inverted Anchor mint-mark.

Presented by W. E. Hidden, Esq.

A muled groat of Henry VIII. combining an obverse of the third coinage with a reverse of the second.

Colonial coins from the J. B. Caldecott collection, including a very rare Portuguese dobra countermarked for Essequibo and Demerara, and several countermarked Spanish dollars and "bits."

XVII. century tokens of the Minories, Corfe Castle, and Taunton. *Presented by H. Symonds, Esq., F.S.A.*

A shilling Charing Cross token with statue of Charles I.
Presented by F. Cavendish Bentinck, Esq.

A rare silver token of the Adelphi Cotton Works, Perthshire.

(*b*) Medals:—

An unpublished lead medal of John Prideaux, Regius Professor of Divinity and Rector of Exeter College, Oxford, made by the French medallist Claude Warin in 1638.

A bronze medal on the death of John Jervis, Earl of St. Vincent, 1797. *Presented by C. Woods, Esq., C.B.*

A silver medal by Dauert, with portraits of George III. and Christian VII. of Denmark.
Presented by L. E. Bruun, Esq.

A silver-gilt specimen of the medal of the Franco-British Exhibition, 1908, by F. Bowcher.
Presented by Sir Isidore Spielmann, C.M.G., through the National Art-Collections Fund.

A bronze medal of the Royal Academy of Arts, executed by the donor after designs by Sir Thomas Brock, R.A.
Presented by Frank Bowcher, Esq.

Reverse for a bronze medal, in the style of Matteo de' Pasti, by Harold Stabler. *Presented by the artist.*

A bronze medal of Murray Marks, by Cecil Brown.
Presented by Murray Marks, Esq.

A bronze medal by F. W. Doyle Jones commemorating the swimming of the Channel by W. T. Burgess in 1911.
Presented by Alfred Jonas, Esq., Hon. Sec. Webb Memorial Fund.

4. *Mediæval and Modern Series:*—

(*a*) Coins:—

A rare demi-salut d'or struck by Charles d'Anjou as king of Naples (1266–1285), bearing on the reverse a pictorial representation of the Annunciation.

A copper "minuto" of Alghero in Sardinia, struck by Alfonso V. of Aragon (1416–1458).
Presented by G. L. Shackles, Esq.

Various Italian coins, among which are 12 gold pieces: a zecchino of Leo X., scudi of Paul III. and Paul IV., a double zecchino of Pius VI., an imitation of the Florentine florin, probably struck by Florent d'Hainault, prince of Achaia,

1289–1297 (*see* F. Alvin, *Revue Belge*, 1907, pp. 19 ff.), a Genoese ducat of Filippo Maria Visconti (Lord of Genoa, 1421–1425), a Milanese florin of Bernabò Visconti (1354–1385), ducats and a double-ducat struck at Rome by Calixtus III. and Alexander VI.

Sixteen silver mediæval German coins, including two Augsburg bracteates of Udalschalk von Eschenlohe.

Presented by Dr. Georg Habich, Director of the Munich Coin-Cabinet.

A gold ducat of Zeeland imitating the escudo type of Ferdinand and Isabella, with inscription of Philip II. as Count of Zeeland.

A rare silver Mexican dollar of Philip III., found at Selsey in March 1911. *Presented by E. Heron Allen, Esq.*

A miscellaneous collection of coins and medals, English and foreign, and a large series of Nuremberg counters (14th–15th centuries). *Presented by Sir Hercules Read, P.S.A.*

Various silver and bronze European coins.

Presented by Evelyn Grant Duff, Esq., C.M.G.

A large collection of European and English coins.

Bequeathed by the late Caroline Lady Ramsay.

A Dutch XVII. Century money-changer's box of scales and coin-weights.

Presented by L. A. Lawrence, Esq., F.R.C.S, F.S.A.

(*b*) Medals :—

Bronze Italian medals of Lodovico Scarampi, patriarch of Aquileia, made by Cristoforo di Geremia at Rome shortly before Scarampi's death in 1465, and of Giovanni Fondati, in classicizing Paduan style, about 1560.

Presented by the National Art-Collections Fund.

A late 15th-century Italian medal cast in silver, in imitation of the antique, bearing the head of Augustus with the reverse of clasped hands holding a double cornucopiæ and caduceus.

A lead medal of Marco Girolamo Vida, bishop of Alba from 1533 to 1566, with signature of Tegniza of Cremona, an artist otherwise unknown (*see Burlington Magazine*, Dec. 1912, p. 137).

A cast bronze medal of Antonio Calmone, about 1570, signed P. P. R. (Pietro Paulo Galeotto, called Romano).

Two rare bronze Italian medals : one of Elia Delatas and Rica his mother, of North Italian, probably Venetian work, dated 1552 ; the other of Pietro Monti, a Milanese scholar and soldier, of the end of the 15th and beginning of the 16th century.

Presented by Maurice Rosenheim, Esq., through the National Art-Collections Fund.

A Dutch or Flemish cast bronze medal dated 1544, bearing reversible heads of the Pope and Devil, Cardinal and Jester.

Gold and silver medals and a silver armorial jeton commemorating the betrothal of Prince Ernest Augustus of Brunswick-Lüneburg with Princess Victoria Louise of Prussia.

Presented by H.R.H. the Duke of Cumberland.

Bronze medal commemorating the Eighteenth Interparliamentry Conference at The Hague.

Presented by the Committee of the Congress.

Specimens in gold, silver, and bronze of the medal of the Centenary of the Independence of the Netherlands.

Presented by J. C. J. Drucker, Esq.

A bronze portrait-medal of Viscount Dillon, by S. W. Carline.

Presented by the Trustees of the National Portrait Gallery.

5. *Oriental Series:—*

A series of 289 silver Sassanian coins; with the exception of an unpublished tetradrachm of Bahram II. with portraits of himself, his queen and his son afterwards Bahram III., and two fine drachms of Sapor II., these are drachms of the later Emperors Kobad, Khusru I., Hormazd IV. and Khusru II., chosen for mints and dates unrepresented in the Museum collection; the condition of these coins is remarkably fine, and they fill many gaps in the Museum collection.

A very rare copper coin of the Sassanian emperor Khusru II.

Presented by Major W. N. Hay.

Two dirhems of the Abbasid Caliph al Mansur (712–775 A.D.) of Baghdad 152 A.H. and Basra 153 A.H.

Presented by H. L. Rabino, Esq.

A dirhem of the Abbasid Caliph al Mutazz (866–869 A.D.) of Sarra min rai 251 A.H.

Presented by W. R. Hubbard, Esq.

A rare dinar of the Hafsid Sherif of Morocco, Abu Ishak Ibrahim II., 1350–1368 A.D.

A copper coin of the Bulghars of the Danube, Xth century.

Presented by Evelyn Grant Duff, Esq., C.M.G.

A silver coin of Timur (Tamerlane) and his nominal suzerain the Chaghatai Khan Mahmud (1389–1398 A.D.) struck at Yezd. *Presented by W. R. Hubbard, Esq.*

Nineteen copper autonomous coins of Persia of the mints Iran, Ja'afarabad, Kazwin, Lahijan, Resht, Tabaristan and Teheran. *Presented by H. L. Rabino, Esq.*

Eight gold, 4 silver and 3 copper coins of the Sultans of Turkey Mahmud II., Abd al-Majid and Abd al-Aziz.

Bequeathed by Caroline Lady Ramsay.

A series of coins of the sultanates of South Arabia, including 2 silver and 2 copper coins of Makalla, and copper coins of Oman, Tarim and Lahej.

A rupee of Ahmad Shah Durrani of Dera, year 9.

Presented by S. E. Pears, Esq., I.C.S.

Two gold coins of Kumāragupta II., new varieties of the Horseman and Lion-slayer types.

Four uncertain gold coins of Mediæval India with the legend *Sri-Sivasya.*

Presented by the Government of Eastern Bengal.

A gold hun of Pratapa Deva Raya of Vijayanagara.

Presented by the Bombay Branch of the Royal Asiatic Society.

A gold tanka of Nasir Shah Khalji (1500–1512 A.D.) of Malwa 912 A.H.

A rare billon coin of Mahmud Damaghan Sultan of Madura 1344 A.D., dated 745 A.H., the second known coin of his reign.

A rupee of Akbar of Lahore, Ilahi 40 : Bahman.

Presented by S. E. Pears, Esq., I.C.S.

Rupees of Akbar of Akbarnagar, Ilahi 50 and Lahore 1007 A.H.

Fourteen rupees of Shah Jahan of the mints Ahmadabad, Allahabad, Akbarnagar, Patna, Tatta and Delhi.

A number of coins of Aurangzib of Ahsanabad, A.H. 1118–50.

A silver four lari piece of the Maldive Islands, 1320 A.H.

6. *Chinese Series :—*

Two specimens (round and square) of the recently discovered 4 *chu* pieces of Lin-Tzu ; two metallic cowries issued by Chwang, king of Tsu, 612–589 B.C. ; a large knife-coin of Tsih-Moh, c. 400 B.C. ; 3 *pu*-coins of the towns of Chung-tu, Koh and Tao-Yeng of the fourth century B.C. ; a specimen of the very rare 10 *hwa* piece of Wang Mang 14–21 A.D., and other early Chinese coins.

A silver dollar of Kuang Hsü of Kiang-Nan province, and a Chinese imitation of the Indian rupee with "Yun-Nan Province" and "Silver coin" in place of the original obverse and reverse legends. *Presented by P. E. O'Brien Butler, Esq.*

A dollar of the Chinese Republic with portrait of President Yuan Shih Kai. *Presented by Mr. Chai Chang Wu.*

A dollar with the portrait of Sun Yat Sen, 5 other silver and 6 copper Chinese coins of the Republic.

A dollar of the Chinese Republic with portrait of General Li. *Bequeathed by Caroline Lady Ramsay.*

A bank note of one *kwan* of the Hung Wu period (1368–1398) of the Ming Dynasty and a collection of 48 Japanese notes.

A tree of cash of the Emperor Kuang Hsü, illustrating the method of casting coins in China.

V.—*Books, &c., presented to the Departmental Library.*

The following, among other books have been received as donations to the Departmental Library.

Corpus Nummorum Italicorum, Vol. IV.

From His Majesty the King of Italy.

Materials for the Stathmological Investigation of the Coins of the Ancient Greek Cities and Kings of Sarmatia and Tauris.
From His Excellency General A. L. Bertier-de-la-Garde.

Die Münzen der grossen Kurfürsten.
From the Generalverwaltung der Königlichen Museen, Berlin.

Numismatichesky Sbornik, Tom. II.
From M. Alexey V. Oreshnikov.

Die Tetradrachmenprägung von Syrakus.
From L. O. Tudeer, Esq.

The British Numismatic Journal, Vol. VIII., and the Catalogue of the C. R. du Rosey Collection.
From Maurice Rosenheim, Esq.

Beschreibung der griechischen autonomen Münzen der kön. Akademie der Wissenschaften zu Amsterdam.
From the Koninklijke Akademie van Wetenschappen.

American Numismatic Journal, Vol. XLVI., and the Catalogue of the International Exhibition of Contemporary Medals, 1911. *From the American Numismatic Society.*

Zwei Funde Schwedischer Münzen des XV–XVI Jahrhunderts. *From the Coin-Cabinet of the Imperial University, Helsingfors.*

A portrait in oils of Taylor Combe, who was from 1803 Keeper of Coins and from 1807 to 1826 Keeper of Antiquities in the British Museum, *presented by the Rev. F. M. Burton, LL.D.*, has been hung in the Medal Room.

VI.—*Students and Visitors.*

The number of visits made to the Department of Coins and Medals by students and others during the year 1913 was 3,565, the average for the previous ten years being 4,263·7.

Owing to repairs to the electric light installation, the Exhibition Corridor was closed to the public from the 13th August to the 16th September, and the Medal Room (partially) from the 13th to the 16th September.

G. F. Hill.

British Museum (Natural History).

STATEMENT of Progress made in the Arrangement and Description of the Collections, and Account of Objects added to them, in the Year 1913.

General Progress.

Visitors.

The total number of visits made by the public to the Natural History Museum during 1913 was 486,320, as compared with 455,613 in 1912, an increase of over 30,000.

The attendance on Sunday afternoons was 53,301, as against 50,765 in the previous year.

The average daily attendance for all open days was 1,339; for week days only, 1,392; and for Sunday afternoons, 1,025.

Swiney Lectures.

Dr. Jehu gave his fifth and final course of Swiney Lectures on Geology during November and December, the subject being "The Natural History of Minerals and Ores."

The lectures were delivered in the Metallurgical Lecture Theatre in the Exhibition Road, by permission of the authorities of the Imperial College of Science and Technology.

The total number of attendances for the 12 lectures was 1,177, an average of 98 persons per lecture.

The Trustees have appointed Dr. J. D. Falconer, F.R.S.E., Lecturer in Geography at the University of Glasgow, to succeed Dr. Jehu as Swiney Lecturer on Geology for the two years, 1914–15, and he will give a course of lectures on "Land Forms and Landscapes: Origin and Classification," in November and December next.

Electric Lighting: Extension of Hours of Opening.

Electric light having been installed in the public galleries on the ground floor, these galleries have been kept open to the public till 5 o'clock daily, except Sundays, since the 1st December.

Destructive Action of Light.

For the better protection of the specimens, dark blinds have been fitted to the windows of the Bird Gallery and the Mammal Galleries, so as to exclude all light during the time that the galleries are closed.

Experiments are being continued with special kinds of glass manufactured for anti-fading purposes, with a view to

ascertaining their worth in modifying the deleterious effects of light on specimens.

Spirit Building and Western Extension.

The Trustees have given further consideration to the question of the site for the new building to contain specimens preserved in spirit. They never regarded with favour the proposal to place an underground building between the main structure and Cromwell Road. After conference with the First Commissioner of His Majesty's Works, &c., that project has been abandoned. The position now proposed for the new spirit museum is on the north side of the western ground.

The Office of Works has been asked to prepare a plan for the western extension of the Natural History Museum, of which the new spirit building would form the northern side. The growth of the Museum in every direction, which is only partly reflected in the congested state of the exhibition galleries, makes it necessary to proceed without delay with a scheme to provide additional accommodation, not only for the collections, but also for study and research purposes. The want of room is being seriously felt in all the Departments, but is a matter of urgency especially in the Departments of Zoology and Entomology, which, under present conditions, are not able to provide adequate study accommodation or tables for research work either for the staff or for students. The Trustees are anxious, therefore, that the building of the West Wing of the main Museum intended for the extension of the two Departments should be commenced as soon as possible.

Ghent Exhibition.

As mentioned in the last Annual Report (1913), the Trustees agreed, on the invitation of the Board of Trade, to the Natural History Museum participating in the organisation, by that Department, of a Tropical Diseases Section in the British Pavilion of the International Exhibition held at Ghent. The Museum exhibits were intended to illustrate by means of specimens, drawings, &c., some of the species of animals which are known to have, or are supposed to have, an influence on the spread of human diseases.

Certain species of antelopes and other "Big Game" were represented in the Exhibition as examples of the animals which are believed by some inquirers to act as the "reservoir" containing the deadly species of Trypanosomes which give rise to Sleeping Sickness. It has been maintained that the extermination of the big game in areas infected by Tsetse-flies would result in a diminution, or even in the disappearance, of Sleeping Sickness. Opinions on this subject are, however, divided, and the British Museum (Natural History) by exhibiting specimens of the species in question, must not be considered to have given its assent to the view that the extermination of big game is

desirable. The conclusion recently published by the Commission presided over by Sir David Bruce, that the human trypanosome disease of Nyasaland is Nagana, shows that the problem may be complicated by factors which have not been taken sufficiently into consideration up to the present time.

The small mammals exhibited belonged to species which have been recorded as "hosts" of the fleas which transmit plague in India and elsewhere.

The predaceous birds and the Indian cobra were illustrated as some of the enemies of these small mammals, or of insects which transmit diseases.

A number of species of blood-sucking insects and ticks (the latter a group which is more nearly related to the spiders than to the insects) were illustrated by means of specimens.

Another part of the exhibit consisted of maps illustrating the geographical distribution of blood-sucking insects instrumental in the spread of disease, particularly Tsetse-flies, Plague-fleas, and *Stegomyia fasciata*, the species of mosquito which disseminates yellow fever.

Some of the publications of the Museum which include accounts of blood-sucking insects of economic importance were shown.

The Board of Trade have reported that the Museum exhibit attracted considerable and wide interest, and that it was visited by many medical men and experts on the subject, British and foreign.

Mr. C. E. Fagan, I.S.O., was appointed to act as one of the members of the Organizing Committee of the British Section, and Mr. E. E. Austen and Dr. W. G. Ridewood were associated with him in the work, and supervised the preparation of the specimens.

The British Antarctic "Terra Nova" Expedition, 1910.

The collections brought home by the Antarctic S.S. "Terra Nova" have been handed over to the Trustees, who have undertaken to prepare and publish the report of the natural history results of this Expedition on the same lines as the report of the collections of the "Discovery" Antarctic Expedition, which was also published by the Trustees.

The present work will certainly run into several volumes, and, when completed, it should be a worthy and fitting memorial of the natural history explorations in the Antarctic made by the late Captain Scott and his companions.

Investigation of Antarctic Whales.

The Trustees have continued to give their attention to the subject of the protection of Whales in Antarctic Seas with a view to measures being taken to prevent the extinction of these animals. In this connection, the importance of obtaining a further knowledge of the life-history and habits of the whales

has, among other reasons, led the Trustees to agree to collaborate with a Swedish Committee in carrying out a scheme for the establishment of an Anglo-Swedish Scientific Station in Graham Land for a survey of the geology of the district and of the rich marine fauna and flora in the surrounding waters. The specimens obtained during this investigation, which it is hoped will extend over a period of five years, will be shared between the Natural History Museum and the Swedish Committee.

In the mean time, the Museum has co-operated with the Colonial Office in the despatch of a marine biologist to South Georgia to study whales in the Antarctic. Major G. E. H. Barrett-Hamilton, the gentleman appointed to this mission, left England in the first week of October, and was accompanied, as his assistant, by Mr. P. Stammwitz, the Museum taxidermist. Major Barrett-Hamilton unhappily died suddenly, from heart failure, on the 17th January 1914, when he had been at work in South Georgia for nine or ten weeks, but he was able in that short time to make a number of observations which cannot fail to be of value in any future work of inquiry in connexion with the subject.

Stranded Whales.

The action taken by the Museum under the arrangements made with the Board of Trade for obtaining prompt information of the stranding of whales, porpoises, &c., on the British coasts has resulted in nearly 80 such records during 1913. It is proposed to print and issue a summary of these observations, together with outline maps of Great Britain and Ireland, on which the records will be marked. The observations are to be continued, and the leaflet issued last year to aid coastguards and others in identifying specimens is to be supplemented by a further leaflet.

Army Biscuit Inquiry.

During the past few years considerable damage has been done to stocks of Army biscuit by various insect pests, especially by the "Imported Flour-Moth" (*Ephestia kühniella* Zeller). At the request of the War Office a joint investigation has been undertaken to ascertain how and where infestation occurs, and whether any steps can be taken to avoid or minimise such infestation in the future. A Preliminary Report, by Mr. J. Hartley Durrant, of the Department of Entomology, and Lieut.-Col. W. W. O. Beveridge, D.S.O., R.A.M.C., has been published, giving the results of their investigations, and demonstrating that the "Imported Flour-Moth" (previously known as "The Mediterranean Flour-Moth") is a species of American origin. Having determined the internal temperature of biscuits during baking, it has been endeavoured to ascertain the temperature which can be relied upon as the "lethal point" (*i.e.*, the lowest temperature fatal to the ova), and preliminary recommendations have been made. An exhibit fully illustrating this inquiry was on view in the Museum for some months.

Consequent on the publication of the Preliminary Report, a small Committee has been formed in connection with the Army Medical Advisory Board, and the various questions involved are being studied for further report. Mr. Durrant has been appointed to serve on this Committee.

Museums Association.

Dr. F. A. Bather, F.R.S., Assistant Keeper of the Department of Geology, attended, as the delegate from the Natural History Museum, the annual conference of the Museums Association held at Hull in July.

Mr. J. H. Leonard, the Official Guide, also attended the meeting, and read a paper on his work in the Museum.

Ninth International Congress of Zoology.

Lord Walsingham, F.R.S., the Hon. Walter Rothschild, F.R.S., and Dr. S. F. Harmer, F.R.S., represented the Natural History Museum at the Ninth International Congress of Zoology held at Monaco, in March, under the Presidency of H.H. the Prince of Monaco.

An important result of the deliberations of this Congress was an agreement arrived at on the troublesome question of Zoological Nomenclature, on which zoologists had been divided for a long time past.

Representation on Committees.

On the invitation of the Colonial Office, the Trustees allowed Mr. E. E. Austen, the Museum Dipterist, to serve on a Committee appointed by the Secretary of State, to consider the question of the relationship between wild animals and the trypanosome diseases conveyed by tsetse-flies to man and beast.

Mr. Austen has also, at the request of the High Commissioner for New Zealand, been permitted to act as the representative of the Dominion on the Imperial Bureau of Entomology.

At the request of the Office of Works, Mr. C. J. Gahan, Keeper of Entomology, has, with the approval of the Trustees, joined a Committee to advise as to the best method of overcoming the ravages of the larvæ of a wood-boring beetle in the timber roof of Westminster Hall.

Mr. W. R. Ogilvie-Grant, Assistant-Keeper of Zoology, has been permitted to serve on a Departmental Committee appointed by the Home Secretary to inquire into the administration of the Wild Birds Protection Acts.

In connection with the question of Bird Protection and with a view to promoting legislative action in the Crown Colonies, lists of plumage birds with their English and scientific names requiring protection in these Colonies and Protectorates have been prepared and printed for use by the Museum and the Colonial Office.

Uganda Flag.

At the request of the Secretary of State for the Colonies, a coloured drawing of the Golden Crested Crane was prepared at the Museum, to serve as a device for the badge on the flag of the Uganda Protectorate. His Majesty the King has approved of the adoption of the drawing for this purpose. It will also be embodied in the design of the Public Seal of Uganda.

Bequests.

The late Mr. James Rowland Ward, who died on 28 December 1912, left a sum of money (500*l.* a year for ten years) out of his estate to his Trustees, to be expended by them in the purchase from Messrs. Rowland Ward, Ltd., of mounted specimens to be offered as a present to the Natural History Museum for exhibition therein.

A marble bust (by Thomas Thornycroft) of the late Brian Hodgson, a generous benefactor of the Museum, was bequeathed to the Museum by his widow, the late Mrs. Susan Hodgson.

Presents.

The total number of gifts received during the year by the several Departments was 2,546, as compared with 2,444 in 1912. Many of these comprised large numbers of individual specimens. The details of all the more important of them will be found in the reports of the Keepers of the Departments, but the following are mentioned here also, as being of special interest or value :—

From His Majesty the King.—The skin of one of the tigers shot by His Majesty in India ; also a head of Indian Rhinoceros. Both these specimens have been mounted for exhibition. The tiger has been stuffed and placed in a case at the top of the stairs on the second floor in the immediate neighbourhood of the Hume Collection of Indian Horns.

From His Royal Highness the Crown Prince of Sweden.—An interesting series of Rhætic plants collected by His Royal Highness on his own estate in Scania.

From Mr. George M. Maryon-Wilson.—A remarkable human skull and mandible, associated with mammalian fragments and flint implements, discovered by Mr. Charles Dawson in an early Pleistocene gravel near Piltdown Common, Sussex. These remains are of high scientific interest, and form one of the most important gifts ever received by the Geological Department of the Museum.

From the Earl of Denbigh, C.V.O.—The Zoological, Geological and Mineral Collections made by the distinguished naturalist Thomas Pennant (1726–1798). These collections are of great historic interest, including, as they do, many types and

specimens figured in Pennant's works, or labelled or described in his original catalogues, which also form part of the gift.

From the Subscribers to the Wollaston Expedition to Dutch New Guinea.—An important collection of zoological and botanical specimens made by the Expedition, whose leader, Dr. A. F. R. Wollaston, is the first explorer who has succeeded in reaching the snows of Carstensz Peak at an elevation of about 15,300 feet.

This is the second expedition to Dutch New Guinea by which the Museum has benefited, the first one having been sent out in 1909 by the British Ornithologists' Union under the leadership of Mr. W. Goodfellow (*see* B. M. Return, 1912, p. 105). As in the previous case, Mr. W. R. Ogilvie-Grant acted as Hon. Secretary to the Expedition, while Mr. C. E. Fagan acted as Hon. Treasurer. The total results of the two expeditions constitute a magnificent collection of the fauna and flora of south Dutch New Guinea, and will form the basis of a monograph which is in preparation for publication.

From Mr. R. J. Balston.—His valuable collection of Humming Birds, consisting partly of mounted specimens, in cases for exhibition, and partly of skins, with a MS. catalogue of the collection.

From Mr. E. C. Stuart Baker.—A beautiful series of Eggs of Asiatic parasitic Cuckoos, in association with the foster parents.

From Lord Walsingham.—250 specimens of Lepidoptera.

From Mr. F. D. Godman.—Further valuable collections of insects, consisting of 11,260 butterflies, chiefly American, named and labelled, including 249 types; 1,700 Hymenoptera from Mexico and Central America; and 675 specimens of named Odonata, or Dragon-flies, mostly from Mexico or Central America, all completely labelled and arranged.

By this last gift Mr. Godman has completed the "Biologia Centrali-Americana" series of insects to come to the Museum. Special acknowledgments are due to this generous friend of the Museum for the many extremely valuable collections with which he has enriched the Entomological Department, and for the help which, in other ways, he has always been so ready to give.

From Mr. F. H. Sikes.—His collection of British Mollusca.

From Mrs. Emily Owen.—A collection of the Medals and Orders which were bestowed on various occasions on her father-in-law, the late Sir Richard Owen, K.C.B., formerly Superintendent of the Natural History Departments.

From Mr. S. Cowper.—55 Portfolios of botanical plates and drawings, collected by the late Dr. Isaac Swainson, who died in 1812.

From the Hon. Walter Rothschild.—A number of separate parts in original wrappers, as issued, of Godart and Duponchel's "Histoire Naturelle des Lépidoptères ou Papillons de France," 1830–35.

Purchases.

Among the more important purchases made during the year, special attention may be drawn to the following:—

The fourth and final instalment of the George Lewis collection of Coleoptera from Japan and Ceylon, consisting of 11,000 specimens from Japan; the third instalment of the Distant collection of insects, namely, 5,000 specimens of Rhynchota and Hymenoptera, including 250 types; the first half of the Koch collection of Arachnida, comprising 1,246 species of named Myriopoda, Isopoda, Argiopidæ, and other Arachnida, and 973 tubes of unnamed species; human and other remains of pre-Inca times, from Peru, collected by Dr. H. O. Forbes; important collections of birds made by Mr. W. Goodfellow in New Guinea and Formosa, by Mr. G. W. Bury in Yemen, Arabia, by Mr. D. A. Bannerman in the Canary Islands, and by Mr. J. D. La Touche in China; reptiles and fishes from the Cameroons, collected by Mr. G. L. Bates, moths from New Guinea and Formosa; 760 fossil fishes, chiefly Carboniferous and Devonian, selected from the collection of the late Dr. R. H. Traquair, F.R.S.; mammalian remains and bird-bones obtained by Miss D. M. A. Bate from Pleistocene deposits in the caverns of Majorca; an important series of fossil reptiles and fishes from the Chalk of Kansas; rare crinoids from the Middle Devonian of Gerolstein, Eifel; a collection of about 1,500 fossils from the Carboniferous Limestone of Ireland, including 16 types and 73 figured specimens; also collections of Cretaceous fossils and Post-Pliocene shells from Ireland; 1,280 tubes of Microzoa, comprising several thousand specimens from the Jurassic, Cretaceous, and Tertiary formations of Russia; native gold from California; a very fine specimen of a faceted pink beryl, from Madagascar; three meteoric stones from the fall on June 28, 1911, at El Nakhla el Boharia, Egypt; a fragment of the meteoric stone which fell on July 12, 1910, at St. Michel, Finland; a slice of a meteoric iron found 60 miles east of Ahumada, Chihuahua, Mexico; a polished and etched slice of the meteoric iron found January 4, 1902, at Chinautla, Guatemala; the Braithwaite Herbarium of British mosses, consisting of about 5,300 specimens, representing 600 species; and collections of plants from San Domingo, Natal, Uganda, North Africa, Bolivia, and Paraguay.

Exchanges and Gifts of Duplicates.

Exchanges of duplicate specimens have been made with various institutions and individuals.

The Zoological Museum of Sheffield University has been placed on the list of institutions to receive grants of duplicate specimens.

Stuffed specimens (duplicates) of five Antarctic animals (a seal, two penguins, a skua, and a petrel) were lent for

exhibition in the Antarctic section of the Imperial Services Exhibition held in the summer at Earl's Court.

Selections of duplicate specimens have been presented as follows:—

Of zoological specimens (other than entomology) — to Birmingham Museum and Art Gallery; Stockport Museum; the Albert Institute, Dundee; Rochdale Museum and Art Gallery; the American Museum of Natural History, New York; Prof. J. W. Spengel (Giessen); Prof. A. Dendy, F.R.S.; Prof. S. J. Hickson, F.R.S.

Of entomological specimens — to Bristol Museum; the Albert Institute, Dundee; the American Museum of Natural History, New York; the State Microscopal Society of Illinois, Chicago; Mr. H. Boileau (Bois de Colombes, France); Dr. E. Zavattari (Turin); Mr. Herbert Campion; Señor R. P. Longinos Navás, S.J. (Saragossa); Mr. George Lewis; Mr. A. M. Lea (Adelaide); Mr. A. Grouvelle (Paris); Dr. Malcolm Cameron; Mr. J. Chatanay (Chalons s. Marne); Mr. H. J. Carter (Sydney); Mr. H. d'Orbigny (Paris); Mr. F. H. Gravely (Calcutta); Captain Ch. Kerremans (Brussels); Dr. Walther Horn (Berlin); Dr. A. Mocsáry (Budapest); and Dr. F. Ris (Zurich).

Of fossils and casts of fossils—to University College, London; Birmingham Museum and Art Gallery; Dr. G. S. Shattuck; Mr. Robert Bruce; Mr. P. Fallot (Grenoble); and Dr. E. A. Newell Arber.

Of minerals—to Prof. J. Joly, F.R.S.; Mr. F. N. A. Fleischmann; and Mr. A. M. d'Oliveira Bello (Lisbon).

(N.B.—All the *individuals* named have presented specimens or otherwise benefited the Museum.)

Publications.

The following works on Natural History have been published during the year:—

Catalogue of the Library in the British Museum (Natural History). By B. B. Woodward. Vol. IV. Pp. 1495–1956. 4to. £1.

Catalogue of the Ungulate Mammals. Vol I. By R. Lydekker, F.R.S. Pp. xvii., 249; 55 text-figures. 8vo. 7*s.* 6*d.*

Catalogue of the Heads and Horns of Indian Big Game bequeathed by A. O. Hume, C.B., to the British Museum (Natural History). By R. Lydekker, F.R.S. Pp. xvi., 45: 16 text-figures and a portrait of Mr. Hume. 8vo. 2*s.*

Catalogue of the British Species of Pisidium (Recent and Fossil), with notes on those of Western Europe. By B. B. Woodward. Pp. ix., 144: 30 plates. 8vo. 10*s.* 6*d.*

Revision of the Ichneumonidæ. By Claude Morley. Part II. Tribes Rhyssides, Echthromorphides, Anomalides, and Paniscides. Pp. viii., 140; 1 coloured plate. 8vo. 5*s.* 6*d.*

Catalogue of Lepidoptera Phalænæ (Moths). By Sir George F. Hampson, Bart. :—

Vol. XII. Noctuidæ (Sub-families Catocalinæ, part). Pp. xiii., 626; 134 text-figures. 8vo. 17*s.* 6*d.*

—— Atlas of 30 coloured plates. 8vo. £1 5*s.*

Vol. XIII. Noctuidæ (Sub-families Catocalinæ (remainder), Mominæ, and Phytometrinæ). Pp. xiv., 609; 130 text-figures. 8vo. 16*s.*

—— Atlas of 18 coloured plates. 8vo. 16*s.*

Catalogue of the Plants collected by Mr. and Mrs. P. Amaury Talbot in the Oban district, South Nigeria. Pp. x., 157; 17 plates. 8vo. 9*s.*

Descriptive Catalogue of the Marine Reptiles of the Oxford Clay. By C. W. Andrews, D.Sc., F.R.S. Part II. Families Pliosauridæ, Teleosauridæ, and Geosauridæ. Pp. xxiv., 206: 73 text-figures, 14 plates. 4to. £1 5*s.*

Catalogue of Mesozoic Plants, Part V. The Cretaceous Flora, Part I. Bibliography, Algæ, and Fungi. By Marie C. Stopes, D.Sc., Ph.D. Pp. xxiii., 285: 25 text-figures and 2 plates. 8vo. 12*s.*

Guide to the Exhibition of Specimens illustrating the modification of the structure of animals in relation to Flight. Pp. viii., 80: 44 text-figures, 1 plate. 8vo. 6*d.*

The House-Fly as a danger to health. By E. E. Austen. Pp. 12: 2 plates and 3 text-figures. 8vo. 1*d.*

New editions have been issued of the following Guide-books :—

General Guide. Thirteenth Edition. Pp. x., 121: 58 text-figures, 2 plans, and 2 views of the building. 8vo. 3*d.*

Guide to the specimens of Great Game Animals (Ungulata). Second Edition. By R. Lydekker, F.R.S. Pp. 95: 53 text and other figures. 8vo. 1*s.*

Guide to the Gallery of Reptilia and Amphibia. Second Edition. By R. Lydekker, F.R.S. Pp. iv., 85: 76 text and other figures. 8vo. 1*s.*

Guide to Exhibition of Animals, Plants, and Minerals mentioned in the Bible. Third Edition. Pp. vii., 78: 7 text-figures. 8vo. 6*d.*

Selections of the natural history publications of the Museum have been sent to free libraries and other institutions in Great Britain and Ireland, to Colonial, Indian, and foreign museums, libraries, and scientific societies, and to persons who have benefited the Museum by helping in the publication of the volumes, or in other ways; and additions have been made to the publications exchange-list.

The under-mentioned works are in preparation :—

Catalogue of the Library, Vol. V.

Catalogue of Bats, Vol. II., by Dr. Knud Andersen.

Catalogue of Ungulates, Vols. II. and III., by R. Lydekker, F.R.S.

Catalogue of the Freshwater Fishes of Africa, Vol. III., by G. A. Boulenger, F.R.S.

Report on the Natural History of the British Antarctic ("Terra Nova") Expedition, 1910.

Third Report on Economic Zoology.

Illustrations of British Flies, Second Series.

Illustrations of Oriental Blood-sucking Flies, by E. E. Austen.

Illustrations of African Blood-sucking Flies, Vol. II., by E. E. Austen.

Revision of the Ichneumonidæ, Part III., by C. Morley.

Catalogue of Moths, Supplement, Vol. I., by Sir G. F. Hampson, Bart.

Flora of Jamaica, Vol. II., by W. Fawcett.

Monograph of the Genus Sabicea, by H. F. Wernham.

Catalogue of the Sloane Herbarium, by J. Britten.

Catalogue of Fossil Fishes, Part V., by Dr. A. S. Woodward, F.R.S.

Guide to British Lichens.

Guide to British Seaweeds.

Economic Series, No. 2.—The Furniture Beetle, by C. J. Gahan.

General Library.

The additions to the General Library during the past year have been :—

By purchase - - -	292 volumes.
By transference from other departments - - -	1 volume, 101 maps.
By donation - - -	608 volumes, 19 maps, and 34 photographs.
Total - -	901 volumes, 120 maps, and 34 photographs.

All the volumes and maps have been catalogued, press-marked, and put in their places; whilst 1,707 volumes have been bound in 559, and two have been repaired.

The extent of the collection on the 31st of December was 42,942 volumes, 5,910 maps, and 798 photographs (not including those in the Owen Collection of Drawings, etc.).

The accessions to the Departmental Libraries have also been catalogued as they came in, and duplicate transcripts of the titles have been returned with the books.

Altogether 3,105 title-slips have been written, 134 re-written, and 3,560 revised (independently of those prepared for printing).

There are now, on a rough estimate, 93,435 volumes (exclusive of continuations and minor separata) and 6,210 maps in the whole building.

The number of visits paid to the General Library during the year by students and others (irrespective of the staff and persons to whom the use of a key is granted) was 2,279.

Donations have been received from a great number of Museums, Academies, and other corporate bodies, as well as from the following personal donors :—

Lord Sudeley.	Maiden, J. H., Esq.
Bather, Dr. F. A.	Migeod, F. W. H., Esq.
Balch, E. S., Esq.	Morgan, Mons. J. de.
Déprez, Mons. G.	Oakenfull, J. C., Esq.
Glen, J., Esq.	Owen, Mrs. E. and the Rev. R.
Gude, G. K., Esq.	Sherborn, C. D., Esq.
Harmer, Dr. S. F.	Stock, Mons. P. V.
Hopkinson, J., Esq.	Whitaker, W., Esq.
Madrolle, Mons. C.	Woodward, H. B., Esq.

The printing of the Catalogue was proceeded with, and the work at the end of the year stood as follows :—

Number of sheets passed for press (A—STY) - - 256
Number of title-slips set up in type (A—SWITZ) - 58,162

Index Generum et Specierum Animalium.

During the year considerable progress has been made with this *Index*, under Mr. C. Davies Sherborn's charge, and some 18,000 slips have been compiled and incorporated.

Daily inquiries from members of the staff and students have been satisfied, whilst the foreign correspondence has greatly increased.

The extremely scarce paper by Faure-Bignet, "Sur les Belemnites," 1819, was secured by Mr. Sherborn, and added to the Library of the Geological Department. Several other rare works were acquired for the General Library, including a copy of J. B. Blank's "Naturalien-Cabinett in dem Minoriten-sogenannten Franciscaner-Kloster zu Würzburg," 1795.

In co-operation with Mr. L. B. Prout, a bibliographic "Note on Fischer de Waldheim's 'Oryctographie du Gouvernement de Moscou,' &c.," was published in the "Annals and Magazine of Natural History," Ser. VIII., vol. xi., 1913. Much other bibliographic work has been done, and is available in MS., including the dates of issue of the various parts of the publications of the "Musée d'Histoire Naturelle," Paris.

Index Museum and Morphological Collections.

All the dissections exhibited in the Hall have been examined during the course of the year; 23 preparations of parts of vertebrate animals and 23 preparations of Mollusca have been re-mounted in alcohol.

In the Tropical Diseases section of the Ghent Exhibition, which was open from May to November 1913, were shown specimens and enlarged models of mosquitoes, tsetse-flies, house-flies, fleas, &c., to illustrate the methods adopted at the British Museum (Natural History) for explaining the manner in which insect-borne diseases are disseminated, and the measures to be recommended for checking the spread of such diseases. The preparation of these exhibits was controlled partly in the Index Museum and partly in the Zoological Department.

The series of Animals and Minerals that are mentioned in the Bible, placed on exhibition, in June 1911, as a supplement to the Biblical Exhibition at the British Museum (Bloomsbury) on the occasion of the tercentenary of the issue of the Authorised Version, was dispersed in March 1913; the series of Bible Plants, however, still remain on view in the Central Hall, and and that of Bible Minerals in the Mineral Gallery.

A series of specimens illustrating modifications of structure of animals in relation to flight has been prepared and set out in Bay VII. in the Hall. The exhibition was opened to the public on August 15th, 1913. The series comprises 166 mounted objects and 12 microscopic specimens, and explains in a popular manner the adaptation of each kind of flying animal for aerial locomotion, and indicates the changes that must have taken place in the structure of the body before the animal could fly. The exhibition is not limited to animals that can truly fly by a beating of wings, *i.e.*, birds, bats, pterodactyles, and insects, but includes also examples of animals which move through the air by scudding or gliding, such as the so-called flying squirrels and flying phalangers. An illustrated guide-book of 80 pages has been issued in explanation of the series.

Of interest in connection with the damage done by certain moths and beetles to biscuits supplied for army service, a series of injured biscuits and the insects causing the damage was exhibited in the Hall from August 15th to November 13th, 1913, together with the apparatus employed by Mr. J. Hartley Durrant and Lieut.-Colonel W. W. O. Beveridge in their investigations to determine, firstly, the temperature of the interior of biscuits at the successive stages of baking; and, secondly, the possibility of the eggs of moths and beetles surviving these temperatures.

A selection of the specimens collected on the British Antarctic ("Terra Nova") Expedition, 1910, was placed on exhibition in the Hall on November 25th, 1913. The specimens displayed comprise marine animals obtained in the Antarctic seas, off

New Zealand, and off the East Coast of South America ; representatives of Antarctic diatoms, algæ, lichens, and mosses ; a selection of the Antarctic birds and seals collected ; specimens of the large hexactinellid sponges of the Antarctic seas ; samples of the fossil plants collected in New Zealand ; pieces of fossil wood and fish remains from Victoria Land ; specimens of lava and crystals of felspar from Mount Erebus ; some of the rock specimens from the Beardmore Glacier collected by the South Pole party ; a map of the route of the South Pole party, and 20 photographs taken on the expedition.

L. Fletcher,
Director.

British Museum (Natural History),
28 February 1914.

Department of Zoology.

I.—*Arrangement and Conservation.*

Mammalia.

Mammal Galleries.

The skulls and horns of Indian Big Game Animals bequeathed by the late Mr. A. O. Hume, C.B., were arranged during the early part of the past financial year on the south and west walls of the corridor on the second floor, between the Botanical Department and the Upper Mammal Gallery, where they make a striking display. Near by have been placed the Nepalese Tiger and the Rhinoceros head presented by H.M. the King.

The bust of Mr. Brian Hodgson, the donor of a large collection of Indian specimens, has been mounted on a pedestal; and this, and the bust of Dr. J. E. Gray, sometime Keeper of the Zoological Department, have been placed on either side of the statue of Sir Joseph Banks.

Another important addition to the exhibition-series is the new Giraffe case in the East Corridor. At present this contains only two comparatively small Giraffes, but it will doubtless be well filled in due course.

Mention may likewise be made of new fittings to the Sea-Elephant case in the Lower Mammal Gallery. The addition of a second tier has admitted of the exhibition of another entire adult specimen.

Black blinds have been fitted to the windows in the Upper Mammal Gallery, in continuation of the work referred to in the last Annual Return.

Apart from the foregoing, little change has been made in the galleries and corridors, the work of arrangement and conservation being, in the main, restricted to keeping the specimens in proper order, the incorporation of new ones, and the writing of such new labels as were required. It may, however, be mentioned that the specimen of the Falkland Islands Wolf, as representing an extinct species, has been withdrawn from exhibition.

One volume of the Catalogue of Ungulates has been published during the year, and a second is in an advanced state. A new edition of the Mammal Guide has been prepared for publication.

To the Anthropological series have been added two busts of North American Indians, received in exchange from the Smithsonian Institution, Washington, U.S.A.

The additions by presentation to the Mammal Galleries include the following :—

A Tiger (*Felis tigris*) and the head of an Indian Rhinoceros (*Rhinoceros unicornis*), from Nepal, presented by H.M. the King. The animals were shot during the Royal tour in India.

An Ashy Bamboo Rat (*Rhizomys canescens*) from the Shan States, presented by the Bombay Natural History Society ; skull and tusks of Pacific Walrus (*Odobænus pacificus*), the gift of Col. H. W. Feilden, C.B. ; a young Brazilian Tapir (*Tapirus terrestris*), from British Guiana, given by the Zoological Society ; horns of Caucasian Tur (*Capra caucasica*), presented by R. Lydekker, Esq., F.R.S. ; horns of Chialtan Markhor, the type of *Capra falconeri chialtanensis*, from Baluchistan, the gift of Col. H. Appleton ; a Nilgiri Tahr (*Hemitragus hylocrius*), presented by the Hon. Sir Arthur Lawley, G.C.I.E. ; a Western Hartebeest (*Bubalis major*), from Nigeria, presented by M. P. Hyatt, Esq. ; the horns of a Lelwel Hartebeest (*Bubalis lelwel*) and of a Reedbuck (*Redunca*, or *Cervicapra, arundinum*), presented by Messrs. W. and E. Trollope ; a Hawash Bushbuck (*Tragelaphus multicolor*) from Abyssinia, given by Lord Wodehouse ; horns of Somali Kudu (*Strepsiceros strepsiceros chora*), given by Guy Chetwynd, Esq. ; a young Kordofan Giraffe (*Giraffa camelopardalis antiquorum*), an Okapi (*Okapia johnstoni*), and a skeleton of the latter, presented by the Rowland Ward Trustees ; a young Malay Elephant (*Elephas maximus*, subsp.) from the Negri Sembilan Province, Malay Peninsula, likewise the gift of the Rowland Ward Trustees, exhibited in the Central Hall.

In addition to the above, as being of more than ordinary interest, reference may be made to a specimen of the Patagonian Sea-Elephant (*Mirounga leonina patachonica*), from the Falkland Islands, acquired by purchase. Specimens of four races of these giant Seals are now exhibited in the big case in the Lower Mammal Gallery.

Whale-Room.—By blocking up the double doors at the north end of the building, and strengthening them with additional timber, the casts of the paddles of three species of Rorqual (*Balænoptera*) referred to on p. 112 of the Return for the previous year have been affixed to the wall in such a manner as to display them with excellent effect. Two casts of a paddle of the Sperm-Whale (*Physeter catodon*) have also been prepared for exhibition, and installed on the floor of the gallery.

The other additions to the Whale-Room include one-half of the eye of a Humpbacked Whale (*Megaptera*), in spirit, from South Africa, the gift of S. B. Goodall, Esq. ; and casts, prepared in the Osteological Room, of the head of a White-beaked Dolphin (*Lagenorhynchus albirostris*) and of an entire common Dolphin (*Delphinus delphis*). The original from which the first of these was made came from Islay, Inner Hebrides, and that of the second from Donegal.

British Saloon.—The only addition to the Mammal series are two newly-born Badger-cubs (*Meles taxus*), presented by Addis Price, Esq.

Study Series.—The usual work of labelling, registering, and incorporating the mammals added to the collection has been continued.

Two cabinets for storing small mammals have been added, and two blocks of cabinets for storing medium-sized mammal skins have also been acquired.

The collections of New World Monkeys, Lemurs, small Carnivora, and Ungulates have been entirely re-arranged.

The Department is again indebted to volunteer helpers for much valuable assistance in working out new forms of Mammals and in the preparation of manuscript lists of various groups.

The following should be specially mentioned in this connection:—Mr. G. Blaine, Dr. K. Andersen, the late Major G. E. H. Barrett-Hamilton, Mr. Martin A. C. Hinton, Dr. R. E. Drake-Brockman, Mr. T. B. Fry, and Miss Kathleen V. Ryley.

The Department is further indebted to Mr. Gilbert Blaine for having kindly continued his work with the manuscript List of Ungulates, and for having assisted in the preparation of the Second Volume of the Catalogue.

In connection with the Bombay Natural History Society's Survey of the Mammals of India, Miss Kathleen V. Ryley, in the absence of Mr. R. C. Wroughton, has worked out the various collections, published reports on them, and selected series for registration. The thanks of the Department are due to Miss Ryley for the great assistance thus rendered.

The services of Dr. Knud Andersen have been continued for the preparation of the second volume of the new Catalogue of Bats.

A Catalogue of the Heads and Horns of Indian Big Game, bequeathed by A. O. Hume, C.B., to the British Museum (Natural History), has been prepared by Mr. R. Lydekker, F.R.S., and has been published by the Trustees.

The first volume of the Catalogue of the Ungulate Mammals, by Mr. R. Lydekker, has been published; the second volume is now in the press, and will be published early in 1914.

Osteological Room.—The arrangement of the skeleton-collection in the Osteological Room has made steady progress. A new cabinet for the reception of large Ungulate skeletons has been added, so that this group is now almost completely housed, and for the first time in an easily accessible form.

The Marsupials and Rodents have also been re-arranged in cabinets.

Various dissections and casts of Whale-paddles have been made during the year, and casts have been taken of the heads of smaller Cetacea.

Work on Cetacea has been facilitated by an instruction to Coast Guards issued by the Board of Trade in 1912, as the result of which Whales and other Cetacea stranded on the British coasts have been reported to the Museum by telegram. Several interesting specimens have been acquired as the result of the information thus given.

The skull and vertebral column of a North Atlantic Right Whale (*Balæna glacialis*), from the Shetlands, have been suspended from the ceiling of the Osteological Room, thereby making them more available for study, and economising floor space.

Additions of special interest to the Osteological and Anthropological collections: nine skeletons and 15 skulls of Peruvians, and the skeleton of a Peruvian dog from a burial ground dating from pre-Inca times; purchased. A skull from an ancient burial ground at Quiagua, N. Chili; presented by W. C. Pringle, Esq. Four paddles of Sperm Whales (*Physeter catodon*), two of which were presented by Mr. Carl F. Herlofson, and two were acquired by purchase. The skeletons of a Bottle-nosed whale (*Hyperoodon rostratus*), a White-sided Dolphin (*Lagenorhynchus acutus*), and an adult female and calf of Risso's Grampus (*Grampus griseus*). The head of a White-beaked Dolphin (*Lagenorhynchus albirostris*), and the skeleton of a lesser Rorqual (*Balænoptera acutorostrata*), presented by the Board of Trade; and the skeleton of the celebrated Borzoi hound, Ramsden Rajah, presented by Major S. Borman.

Abnormal Coloration.

This series has been enriched by an albino Chevrotain *Tragulus napu*), from the Malay Peninsula, presented by Mungo Park, Esq.

AVES.

The remounting of specimens in the General Gallery has been continued, and the family *Tyrannidæ* completed. Various missing types have been added, notably a fine adult pair of the remarkable Mikado Pheasant (*Calophasis mikado*) and a male of the Pheasant Grouse (*Tetraophasis obscurus*). The Fly-catchers (Muscicapidæ) are now in hand.

The Balston Collection of Humming-birds has been named and arranged and has been placed on exhibition in the Corridor leading to the Whale Gallery.

In the Bird Room the re-labelling of the Bird-Cabinets necessitated by the re-arrangement of the bird-skins has made good progress, and the Index to the special reference Catalogue has been nearly completed. The Swans and Geese have been re-arranged in new cabinets.

Mr. D. A. Bannerman gave valuable assistance between the 1st of January and the 2nd April, and helped in the relabelling of the cabinets.

The more notable presents were the following :—

From Mr. R. J. Balston a large collection of 3,315 Humming-birds, a number of which are mounted in cases and placed in one of the corridors. From Col. H. W. Feilden, C.B., Nesting groups of the Turnstone, Little Stint, Grey Plover and Dotterel. From Mr. E. C. Stuart Baker 433 eggs, including those of various

species of Indian Cuckoos with the eggs of their foster-parents. From Mr. L. M. Seth-Smith 246 birds and 100 eggs from Uganda.

Mr. A. F. R. Wollaston's Expedition, which succeeded in reaching almost the summit of the Snow Mountains (Mt. Carstensz), brought home a large and valuable collection of bird-skins formed by trained Dyaks under the direction of Mr. C. B. Kloss, Curator of the Kuala Lumpur Museum.

Mr. D. A. Bannerman's Expedition to the Eastern Canary Islands has resulted in a valuable series of specimens, mostly obtained in their breeding plumage; these were much needed for the collection.

Among the more important purchases are :—

Valuable collections of birds from British New Guinea and Mt. Arizan, C. Formosa, made by Mr. Walter Goodfellow.

A very valuable collection of birds from the highlands of Yemen, including the types of a number of newly described species collected by Mr. G. W. Bury.

234 birds from the Canary Islands collected by Mr. D. A Bannerman.

152 birds from the Guano Islands off the Coast of Peru collected by Dr. H. O. Forbes.

During the year the collection has been regularly consulted by a large number of visitors; and systematic work has been done on various groups by Mr. W. L. Sclater, Major H. H. Harington, Mr. E. C. Stuart Baker, Mr. J. P. Cook, Mr. C. H. B. Grant, Mr. D. A. Bannerman, Lord Brabourne, Mr. G. M. Mathews, Mr. T. Iredale, Dr. P. R. Lowe, Major H. J. Kelsall, Mr. Witherby, and Mr. Lucas.

Various artists engaged in preparing drawings for forthcoming works have also made regular use of the collection, viz.:—Mr. H. Grönvold, Mr. G. E. Lodge, Mr. Archibald Thorburn, Mr. R. Green, Mr. H. Goodchild, Miss Medland, Major H. Jones, Mr. W. Foster, Mr. Bernard Shaw, Miss Winifred Austen, and Mr. A. W. Seaby.

The whole collection of bird-skeletons has been re-arranged in the new room made by cutting off a portion of the basement for its reception. But the cabinets in which they are kept are of an obsolete type, being far from dust-proof, and in other ways inconvenient.

The most valuable addition to this part of the collection during the year was the skeleton of the Shoe-billed Stork, (*Balæniceps rex*) acquired by purchase.

Domesticated Animals.

North Hall.—The additions include the head of a Kathiawar Buffalo, presented by the Zoological Society. The skull and horns of a Cape Trek Ox, the gift of Col. H. W. Feilden, C.B.,

and those of a Lake Chad Ox, given by Capt. A. C. Aubin. A dwarf Indian Humped Bull, presented by the Duke of Bedford, K.G. A Circassian Goat, and a Dinka Maned Sheep, presented by the Egyptian Government. A Norfolk Ram and a Herdwick Ram, the former presented by Dermot McCalmont, Esq., and the latter by L. C. Howard, Esq. Skulls and horns of Wallachian and of Black-faced Hungarian Sheep, presented by the Royal Hungarian Minister of Agriculture. The dogs presented during the year comprise an Irish Wolfhound, presented by Miss E. M. Galloway, a Laverack Setter, by F. Forester, Esq., and a Lhasa Terrier, by Mrs. Webster.

A white canary, the first bred in England, presented by W. Kiesel, Esq.

Central Hall.—To the case of Pigeons has been added a White Dragon, the gift of W. E. Hewitt, Esq., and an Egyptian Swift, presented by R. Leslie, Esq.

Reptilia and Batrachia.

Reptile Gallery.—The most interesting addition is a coloured plaster cast of a Giant Tortoise presented by the Hon. Walter Rothschild, F.R.S. The original was brought from the Galapagos Islands, and was presented to the Scarborough Museum in 1840 by John Wharton, Esq. It apparently represents a species new to the collection. The only other addition is a Gabun Puff-Adder (*Bitis gabonica*), the gift of C. C. Gowdey, Esq.

Study Series.—All additions have been named, registered and incorporated, and part of the collection has been attended to as regards the renewal of the spirit and the replenishment of the jars.

Pisces.

No changes have been made in the Exhibition Gallery.

The additions have been registered and incorporated in the collection so far as its congested state has allowed. Not only is there no room for additions in the majority of the cupboards in the Spirit Building, but the space on the tops of the table-cases is fully occupied with specimens that cannot be put away in their places.

The card catalogue has been continued.

The work of replenishing the spirit has been carried on.

Tunicata.

Six large plates, with forty figures representing typical examples, in their natural colours, of the main groups have been exhibited in the case for Tunicata in the Shell Gallery.

Mollusca.

In the Shell Gallery arrangements have been made for the exhibition of the Sikes collection of British Land and Freshwater Shells. The present disposition is temporary and the

collection will be rearranged when the special cases are received. Part of this collection has been relabelled and remounted. A catalogue of the Norman collection has been prepared, following the present arrangement of the cabinets. The model of Torsion in the Gastropoda has been replaced by a stronger one in metal executed by Messrs. Basset Lowke. The rearrangement, remounting and renaming of the exhibited Zonitidae have been considerably advanced, the Department having obtained the services of Mr. G. K. Gude for this purpose; while the economic exhibit has been rearranged and preparations made for its extension.

Detailed reports, with descriptions of new and interesting forms, have been prepared upon collections from South Africa, Madagascar and New Guinea (Utakwa Expedition). *Aporemodon*, a curious genus presumably allied to *Vallonia* and a Palæozoic Chiton from the Lower Ordovician have been examined and described. A collection from Henderson Island has been worked out and an account of it published. The anatomy of *Veronicella nilotica* has been further investigated and an account supplementary to the type-description has been prepared. Collections from West Australia, the Solomon Islands, Goodenough Island and Peru have been reported upon and incorporated. The Japanese species of *Haliotis* have been studied and a note upon *H. sieboldii* has been prepared. A number of smaller collections and series have been worked over. The Mollusca from an Azilean shell-mound on the Island of Colonsay are under examination and a report is being prepared. The registration of the Norman collection has been completed, a total of 51,051 specimens having been entered. A number of species from the Sikes collection have been critically examined and verified. The arrangement and preparation of the Blanford and Godwin-Austen collections of Indian Land Mollusca have been continued by Lieut.-Col. H. H. Godwin-Austen, F.R.S.

Myriopoda and Arachnida.

Special attention was given during the year to the study of the parasitic forms of Acari; a large number of species belonging to this order were determined and a short preliminary report on some species found on rats was published. A second consignment of Arachnida from the Seychelles, received from Prof. J. Stanley Gardiner, F.R.S., has been reported upon. Nearly all the first half of the Koch collection of Myriopoda and Arachnida has been arranged in systematic order and registered. About two-thirds of the spirit collection of Myriopoda and Arachnida has been re-spirited. A second model of a tick (gorged female of *Amblyomma hebræum*) is now ready for exhibition and a third model is being prepared.

Crustacea and Pycnogonida.

In the exhibited series of Crustacea, British specimens of the Fairy Shrimp (*Chirocephalus diaphanus*) and specimens

illustrating the destruction of submarine woodwork on the coast of Natal by *Sphæroma terebrans* have been mounted and placed in the Gallery.

Of the Norman collection, received in 1911, 18,718 specimens have been registered during the year; and the tubes, as far as registered, have been sealed with paraffin wax to delay the evaporation of the spirit. The Koch collection of Wood-lice, contained in 259 tubes, was received during the year, but it has not yet been possible to begin its arrangement or registration. The Budde-Lund collection, received in 1912, also awaits labelling and registration. The remaining accessions have been registered and incorporated as far as the congested state of the Crustacea Room would allow.

Echinoderma.

The exhibited collection of Stalked Crinoids has been respirited and the labels and covers restored. The congestion of the study series in the Spirit Building is becoming more acute. Most of the specimens obtained during the year have been determined, and all have been incorporated. Owing to the destruction of valuable property in various places, the rare *Holopus* has been withdrawn from the Gallery.

Worms.

The MS. list of the Chaetognatha has been completed.

The appointment of a new Assistant has given the opportunity of passing over to him the care of the collections representing some of the groups of "worms." He has devoted special attention to the Nemathelminthes, but other groups, and particularly Platyhelminthes and Nemertinea, will probably be taken over by him in due course.

With the help of Mr. W. A. Harding for Leeches, and of Dr. Cognetti di Martiis for Oligochaeta, nearly all the worms obtained during the year have been determined, and they have all been incorporated.

Some improvements have been made in the exhibited series of parasitic worms, and numerous bottles in the study-series have been re-spirited, while the systematic arrangement of the microscopic slides has been continued.

Polyzoa.

The arranging and registering of 373 spirit specimens of the Norman collection of Polyzoa have been completed.

The conservation of the slide-collection of Polyzoa has been begun, many of the preparations preserved in fluid having been stained where necessary and remounted in glycerine or Canada Balsam.

Anthozoa.

The MS. Catalogue of the Pennatulida has been completed. Nearly all the specimens of the Anthozoa added during the

year have been named, and have been incorporated in their systematic position.

Owing to a slight curtailment of space in both galleries in which corals are exhibited, several interesting and instructive specimens and pictures have had to be put in reserve, and cannot be exhibited until more space is available.

The "Sea-Shore" case in the British Room has been thoroughly overhauled, and the necessary spirit added.

The congestion in the Spirit Room is now so great that some of the bottles are being put on the top of others. It is extremely difficult to maintain an orderly arrangement, and the collection becomes more and more difficult of access to students.

Hydrozoa.

The arranging and registering of the spirit part of the Norman collection of Hydrozoa, comprising 740 specimens, have been carried out.

Porifera (Sponges).

Small collections of marine sponges from Natal, West Australia, Masqat, and the West Indies, and one of fresh-water sponges from the Volga have been examined and partly named.

II.—*Duplicates and Exchanges.*

(*a*) *Duplicates.*

Duplicates have been distributed among museums, scientific institutions, etc., as follows :—

Mammalia. — Albert Institute and Victoria Galleries, Dundee ; Art Gallery and Museum, Rochdale.

Duplicates have been lent to the British Antarctic Expedition, 1910 (Exhibition held at Earl's Court, London, S.W.) and to the Ghent Exhibition (British Section, Tropical Diseases).

Aves.—Albert Institute and Victoria Galleries, Dundee ; Royal Scottish Museum, Edinburgh.

Reptilia, *Batrachia.*—Albert Institute and Victoria Galleries, Dundee.

Pisces.—Albert Institute and Victoria Galleries, Dundee.

Pterobranchia. — Professor A. Dendy, F.R.S. ; Professor S. J. Hickson, F.R.S.

Mollusca.—Albert Institute and Victoria Galleries, Dundee ; Art Gallery and Museum, Rochdale ; Stockport Municipal Museum.

Arachnida.—Museum and Art Gallery, Birmingham ; Albert Institute and Victoria Galleries, Dundee ; American Museum of Natural History, New York.

Crustacea.—Museum and Art Gallery, Birmingham; Albert Institute and Victoria Galleries, Dundee.

Echinoderma.—Museum and Art Gallery, Birmingham; Albert Institute and Victoria Galleries, Dundee.

Worms.—Professor J. W. Spengel.

Polyzoa.—Museum and Art Gallery, Birmingham.

Cœlenterata.—Museum and Art Gallery, Birmingham.

Porifera and Protozoa.—Museum and Art Gallery, Birmingham; Albert Institute and Victoria Galleries, Dundee.

(*b*) *Exchanges.*

Exchanges have been made with the following institutions and individuals:—

Mammalia.—With the Zoologisches Museum, Berlin; the Museum of Comparative Zoölogy, Cambridge, Mass.; the Christiania Museum; the American Museum of Natural History, New York; and the Rikmuseum, Stockholm.

Aves.—With the Museum of Comparative Zoölogy, Cambridge, Mass.; the Tring Museum; Dr. Louis B. Bishop; Mr. W. Cross; and Mr. J. H. Fleming.

Reptilia and Batrachia.—With the Naturhistorisches Museum, Basel; the Museum of Comparative Zoölogy, Cambridge, Mass.; Mr. L. A. Lantz; and Dr. J. C. Thompson.

Pisces.—With the Zoologisches Museum, Berlin; University Museum of Zoology, Cambridge; Muséum d'Histoire Naturelle, Paris.

Arachnida.—With Mr. Nathan Banks; and with Dr. W. Sörensen.

Crustacea.—With the Durban Museum; Western Australian Museum and Art Gallery, Perth; and Dr. R. P. Cowles.

III.—*Departmental Library.*

The acquisitions for the Departmental Library (including the Entomological Department) during the year, obtained by purchase, presentation and exchange, consist of 101 separate works in 128 volumes, and 1,955 parts of periodicals and works in progress.

Five hundred and eight volumes, including those belonging to the Walsingham Library, have been bound.

The work of collating, stamping, press-marking and entering all additions in the Catalogue has been performed as usual.

The Attendant in the Library, with the aid and supervision of an Assistant, has checked all the entries of Zoological Works in that portion of the General Catalogue of Books which has been printed during the year.

Among the donations the following are worthy of special mention :— The Birds of Australia, Vol. 3, parts 1–4 ; presented by G. M. Mathews, Esq. An engraving of Thomas Pennant, and a specimen of his handwriting ; presented by the Earl of Denbigh, C.V.O. A series of original water-colour drawings and pencil-sketches made by Dr. E. F. Kelaart, and used by him in connection with his report on Ceylon Nudibranchiate Molluscs and Zoophytes ; presented by Miss Kelaart.

Among the purchases the following are worthy of special notice :—Folin, A. G. L., and Perrier, L., "Les Fonds de la Mer," Tom. 1-3 ; Latreille, P. A., "Précis des Caractères génériques des Insectes" ; the original drawings, in four volumes, made for Cramer, P., "Papillons exotiques."

The works relating to the Mollusca (about 800 volumes) and the collection of reprints of Molluscan papers (about 1,000) have been rearranged upon a definite system, and a slip-catalogue has been prepared for use in the Mollusca Rooms.

List of Donors to the Departmental Library during the year 1913 :—

Agricultural Experiment Station, Bozeman, Montana.
Agricultural Research Institute, Pusa, Behar, British India.
Agriculture and Fisheries, Board of.
Alvarez, T.
American Museum of Natural History, New York.
Anthropological Society, Bombay.
Arrow, G. J.
Australian Museum, Sydney.
Avicultural Society, London.
Barnes, Dr. W.
Barton, Dr. E. A.
Baumann, F.
Behning, Dr. A.
Brabourne, Lord.
British Ornithologists' Union.
Broun, Maj. T.
Bucarest, Academia Româná.
Bureau of Productive Industry, Government of Formosa, Japan.
Bureau of Public Health, Washington.
Chapman, S. C.
Chubb, C.
Colombo Museum, Ceylon.
Conchological Society of Great Britain and Ireland.
Conseil permanent International pour l'Exploration de la Mer.
Denbigh, Earl of, C.V.O.
Département van Landbouw, Nijverheid en Handel, te Buitenzorg, Java.
Department of Agricultural Entomology, Manchester University.
Department of Agriculture, Edmonton, Canada.

Department of Agriculture, Kuala Lumpur, Federated Malay States.
Department of Agriculture, Madras Presidency.
Department of Agriculture, Ottawa, Canada.
Department of Agriculture, Sydney, N.S.W.
Department of Agriculture and Technical Instruction, Ireland.
Department of Agriculture, Victoria.
Department of Agriculture, Wellington, New Zealand.
Department of Commerce and Labour, Bureau of Fisheries, Washington.
Dognin, Mons. P.
Dove Marine Laboratory, Cullercoats, Northumberland.
Edwards, F. W.
Entomological Society, London.
Entomological Society, Ontario, Canada.
Field, Editor of the.
Fishery Board for Scotland.
Foreign Bird Club.
Gardiner, Prof. J. Stanley, F.R.S.
Griffini, Dr. A.
Gude, G. K.
Hawaiian Sugar Planters' Association.
Hewitt, Dr. C. Gordon.
Howard, Dr. L. O.
Hutchinson, Messrs.
Ichthyologisches Laboratorium der Kaspi - Wolgaschen Fischerei-Verwaltung in Astrachan.
India, Secretary of State for.
Imperial Bureau of Entomology.
Imperial Bureau of Fisheries, Department of Agriculture and Commerce, Tokyo.
Imperial Department of Agriculture, West Indies.
Indian Museum, Calcutta.
Jardine, N. K.
Kelaart, Miss F.
Kirkpatrick, R.
Kommissionen för Havundersögelser, Kjöbenhavn.
Koningsberger, Dr. J. C.
Linnean Society, London.
London School of Tropical Medicine.
Lyell, J. C.
Magyar Királyi Ornithologiai Központ, Budapest.
Mathews, G. M.
Mauritius, Governor of.
Methuen, Messrs.
Miers, Miss.
Morse, E. S.
Mullens, W. H.
Musée Zoologique de l'Académie Imp. St. Pétersbourg.
Museo Civico di Storia Naturale, Genova.
Museum of Comparative Zoölogy, Harvard College.

Naturhistorisches Museum, Basel.
Nederlandische Entomologische Vereeniging.
New Jersey Agricultural College Experiment Station.
Nichols, J. T.
Norman, Rev. Canon A. M., F.R.S.
Ogilvie-Grant, W. R.
Parry, J.
Poulton, Prof. E. B., F.R.S.
Rockefeller Foundation, International Health Commission, Washington, D.C.
Rowland-Brown, H.
Sanitary Commission, Government of India.
Sars, Prof. G. O.
School of Medicine, Cairo, Egypt.
Secretary of State for the Colonies.
Sherborn, C. D.
Smith, E. A., I.S.O.
South, R.
Société Entomologique de Belgique.
Société Entomologique de France.
Société Entomologique de Russie.
Société Royale de Zoologie, Amsterdam.
South African Ornithologists' Union.
Superintendent of Government Printing, Calcutta, India.
Technical Education Branch, Technological Museum, Sydney.
Thomas, O., F.R.S.
Tropical Diseases Bureau, Imperial Institute, London.
United States Department of Agriculture, Washington.
University of California.
University Museum of Zoology, Cambridge.
University of Pennsylvania.
University of Wyoming, Laramie, Wyoming.
Urich, F. W.
Western Australian Museum, Perth.
Wilson Ornithological Club.
Zoological Museum, Copenhagen.
Zoological Society, London.
Zoological Society, New York.
Zoological Society, Philadelphia.
Zoological Society, Tokyo.
Zoologische Staatssammlung, München.

IV.—*Publications.*

In addition to the official Catalogues and other volumes published by the Trustees (*see* pp. 128–9), various reports and descriptive papers have been prepared in connection with the different branches of the collection; and have been published for the most part in scientific journals.

For the convenience of reference the following list is appended:—

Mammalia.

By Oldfield Thomas, F.R.S.:—

"Two New Australian Mammals."
Ann. Mag. Nat. Hist. (8), xi., p. 79.

"On some rare Amazonian Mammals from the Collection of the Para Museum." *Ib.*, p. 130.

"On Small Mammals collected in Jujuy by Señor E. Budin." *Ib.*, p. 136.

"On some specimens of *Glauconycteris* from the Cameroons." *Ib.*, p. 144.

"Notes on S. American Leporidæ." *Ib.*, p. 209.

"Four new Shrews." *Ib.*, p. 214.

"Ernst Hartert's Expedition to the Central Western Sahara." Novitates Zoologicæ, xx., p. 28.

"On African Bats and Shrews."
Ann. Mag. Nat. Hist. (8), xi., p. 314.

"New Forms of *Akodon* and *Phyllotis*, and a new Genus for '*Akodon*' *teguina*." *Ib.*, p. 404.

"On a remarkable new free-tailed Bat from Southern Bombay."
Journ. Bombay Nat. Hist. Soc. xxii., p. 87.

"A new Shrew from the Adaman Islands."
Ann. Mag. Nat. Hist. (8), xi., p. 468.

"New African *Epimys* and *Jaculus*." *Ib.*, p. 482.

"On some Mammals from Bali and Mysol, collected by E. Stresemann during the Frieburger Molukken-Expedition." *Ib.*, p. 504.

"On certain of the small S. American *Cervidæ*."
Ib., p. 585.

"Some new Feræ from Asia and Africa." *Ib.*, xii., p. 88.

"On new Mammals obtained by the Utakwa Expedition to Dutch New Guinea." *Ib.*, p. 205.

"Some new species of *Uromys*." *Ib.*, p. 212.

"The Geographical Races of the Woolly Opossum."
Ib., p. 358.

"A new species of Dwarf Potto." *Ib.*, p. 387.

"List of Mammals obtained by the Hon. Walter Rothschild, Ernst Hartert, and Carl Hilgert in Western Algeria during 1913."
Novitates Zoologicæ, xx., p. 586.

"New Mammals from South America."
Ann. Mag. Nat. Hist. (8), xii., p. 567.

By Oldfield Thomas, F.R.S., and Kathleen V. Ryley:—

"Scientific results from the Mammal Survey."
Journ. Bombay Nat. Hist. Soc., xii., p. 242.

MAMMALIA—*continued.*

By GUY DOLLMAN :—

"On the Langurs (*Presbytis*) of Central and Southern India." Journ. Bombay Nat. Hist. Soc., xxii., p. 439.

By R. LYDEKKER, F.R.S. :—

"The Dwarf Buffalo of Southern Nigeria; with a revision of the Dwarf Buffaloes of Western Africa."
Proc. Zool. Soc., 1913, p. 234.

"The Transvaal Race of the Cape, or Khama, Hartebeest."
Ib., p. 818.

By Dr. KNUD ANDERSEN :—

"A new *Pteropus* from the Polynesian Sub-region."
Ann. Mag. Nat. Hist. (8), xi., p. 469.

By GILBERT BLAINE :—

"A new Oribi from the Galla Country to the North of Lake Rudolf." Ann. Mag. Nat. Hist. (8), xi., p. 146.

"Some Notes on the Reedbucks, with a description of two new Sub-species." *Ib.*, p. 287.

"On the Relationship of *Gazella isabella* to *Gazella dorcas*, with a description of a new Species and Sub-species." *Ib.*, p. 291.

By KATHLEEN V. RILEY :—

"Bombay Natural History Society's Mammal Survey of India, Report No. 9, Mysore Collection."
Journ. Bombay Nat. Hist. Soc., xxii., p. 283.

"Scientific Results from the Mammal Survey."
Ib., p. 434.

"Bombay Natural History Society's Mammal Survey of India, Report No. 10 (Kathiawar) and Report No. 11 (Coorg)." *Ib.*, p. 464

By R. C. WROUGHTON and KATHLEEN V. RYLEY :—

"Scientific Results from the Mammal Survey, Part III."
Journ. Bombay Nat. Hist. Soc., xxii., p. 13.

By MARTIN A. C. HINTON :—

"Note on the Voles of the *orcadensis* Group."
Ann. Mag. Nat. Hist. (8), xii., p. 452.

By G. E. H. BARRETT-HAMILTON, F.Z.S., and MARTIN A. C. HINTON :—

"On a Collection of Mammals from the Inner Hebrides."
Proc. Zool. Soc., 1913, p. 821.

"Three new Voles from the Inner Hebrides, Scotland."
Ann. Mag. Nat. Hist. (8), xii., p. 361.

By W. P. PYCRAFT :—

"The Courtship of Animals."

Aves.

By W R. OGILVIE-GRANT:—

"Notes on the Birds collected by the B. O. U. Expedition to Dutch New Guinea." Ibis, 1913, p. 76.

"On a small collection of Birds from Henderson Island, South Pacific." *Ib.*, p. 343.

"On a collection of Birds from S. Abyssinia, presented to the British Museum by Mr. W. N. Macmillan." Part I. Passeres. *Ib.*, p. 550.

"Remarks on a specimen of *Lagopus scoticus*." Bull. B. O. C., xxxi., p. 41.

"Remarks on a small collection and descriptions of new species of Birds (*Acrocephalus taiti, Vini hendersoni* and *Porzana murrayi*) from Henderson Island, S. Pacific." *Ib.*, p. 58; corrections, p. 76.

"Remarks on an abnormally coloured Rook." *Ib.*, p. 76.

"Description of and remarks on new species of Birds collected by Mr. G. W. Bury in the Highlands of Yemen (*Turdus menachensis, Parisoma buryi, Œnanthe yemenensis, Accentor fagani, Poliospiza menachensis, Cryptolopha umbrovirens menachensis*), also on a new genus and species, *Pseudacanthis yemenensis*, p. 86; also a new sub-species of Grosbeak, *Rhynchostruthus percivali yemenensis*, p. 112; and a Shrike, *Lanius yemenensis;* xxxiii., p. 91."

"On the Mongolian Black Grouse (*Lyrurus tetrix mongolicus*)." *Ib.*, p. 91.

"Remarks on the Birds obtained by Mr. Wollaston and Mr. Kloss during their ascent of Mt. Carstensz, Dutch New Guinea, with descriptions of the following new Birds: *Rallicula klossi, Melopitta lugubris rostrata, Edoliisoma utakwensis, Anthus wollastoni*, and *Paradigalla intermedia*." *Ib.*, p. 103.

"On the Nest and Eggs of the Hebridean Song-Thrush." *Ib.*, p. 114.

"Exhibition of, and remarks on the Spitsbergen Ptarmigan *Lagopus hyperboreus*." *Ib.*, xxxiii., p. 32.

"Remarks on the Starling breeding in the Orkney and Shetland Islands, with reference to the peculiar sooty-black plumage of the young." *Ib.*, p. 63.

"Remarks on Barrow's Golden-eye (*Clangula islandica*), and the Scaup Duck (*Nyroca marila*) in eclipse-plumage." *Ib.*, p. 64.

"On an example of the Carolina Crake from the Island of Lewis, Outer Hebrides." *Ib.*, p. 82., also British Birds, vii., p. 202.

"The Eclipse-plumage of the Capercaillie with a note on the Capercaillies in the Pennant Collection." British Birds, vii., p. 2.

"Red-footed Falcon reported from Aberdeenshire." *Ib.*, p. 199.

AVES—*continued.*

Bulletin of the British Ornithologists' Club. Vols. xxxi., xxxii. (Report on the Immigration of Summer Residents), and xxxiii. (edited).

By W. P. PYCRAFT :—

"On the Eclipse Plumage in Ducks." Bull. B. O. C., xxxiii., p. 66.

By C. CHUBB :—

"On the priority of *Myiospiza humeralis* (Bosc) over *M. manimbe* (Licht.) *Topaza smaragdulus* (Bosc) is the female of *T. pella* (Linn.)."
Bull. B. O. C., xxxi., p. 39.

"Exhibition and descriptions of two new forms of Darwin's Rhea from Tarapaca and Bolivia."
Ib., xxxiii., p. 79.

By LORD BRABOURNE and C. CHUBB :—

"A Synopsis of the genus *Tinamus*."
Ann. Mag. Nat. Hist. (8), xii., p. 577.

Reptilia and Batrachia.

By G. A. BOULENGER, F.R.S. :—

"The Snakes of Europe." London : 1913, 8vo.

"Second contribution to our knowledge of the Races of Wall-Lizard (*Lacerta muralis*)."
Trans. Z. S., xx., p. 135.

"On a collection of Batrachians and Reptiles made by Dr. H. G. F. Spurrell in the Choco, Colombia."
P. Z. S., 1913, p. 1019.

"On the Geographical Races of *Vipera ammodytes*."
Ann. Mag. Nat. Hist. (8), xi., p. 283.

"On the presence of two closely allied species of Toads of the genus *Nectophryne* in Cameroon."
Op. cit., xii., p. 67.

"Description of a new Snake discovered by Mr. A. E. Pratt in Eastern Peru." T. c., p. 72.

"Descriptions of new Lizards in the collection of the British Museum." T. c., p. 563.

"A List of the Reptiles obtained by Mr. H. Stevens in Upper Assam and the Eastern Himalayas."
Rec. Ind. Mus., ix., p. 337.

Pisces.

By G. A. BOULENGER, F.R.S. :—

"Descriptions of three new Fishes discovered in the Gold Coast by Dr. H. G. F. Spurrell." P. Z. S., 1913, p. 51.

"Descriptions of four new Fishes discovered by Mr. G. L. Bates in the Nyong River, South Cameroon."
Ann. Mag. Nat. Hist. (8), xii., p. 67.

"Descriptions of five new Cichlid Fishes from Africa."
T. c., p. 482.

"Descriptions of a new Cyprinodont Fish from the Sobat River." T. c., p. 566.

PISCES—*continued.*

"Description d'un Poisson nouveau recueilli à Luluabourg (Congo Belge)." Rev. Zool. Afr., ii., p. 394.

"Descriptions de deux Poissons nouveaux provenant des récoltes de M. E. Luja à Kondué, Kasai." Bull. Soc. Nat. Luxemb., No. 3.

By C. TATE REGAN :—

"The Antarctic Fishes of the Scottish National Antarctic Expedition." Trans. Roy. Soc. Edinb., xlix., p. 229.

"A Collection of Fishes made by Prof. Francisco Fuentes at Easter Island." Proc. Zool. Soc., 1913, p. 368.

"A Revision of the Fishes of the genus *Kuhlia*." T. c., p. 374.

"A Revision of the Cyprinodont Fishes of the sub-family Poeciliinæ." T. c., p. 977.

"A Deep Sea Angler Fish, *Melanocetus johnstonii*." T. c., p. 1096.

"*Raia undulata*, Lacep., and its distribution on the British Coasts." Ann. Mag. Nat. Hist. (8), xi., p. 80.

"The Osteology and classification of the Teleostean Fishes of the order Scleroparei." T. c., p. 169.

"Descriptions of two new Fishes from Paranagua, Brazil, presented to the British Museum, by Herr A. Rachow." T. c., p. 231.

"The Poeciliid Fishes of the genus *Jenynsia*." T. c., p. 232.

"Description of a new Cyprinid Fish from Singapore." T. c., p. 394.

"A Revision of the Myxinoids of the genus *Myxine*." T. c., p. 395.

"The Fishes described by Carmichael from Tristan da Cunha." T. c., p. 466.

"A Synopsis of the Cichlid Fishes of the genus *Crenicichla*." T. c., p. 498.

"A Synopsis of the Siluroid Fishes of the genus *Liocassis*, with descriptions of new species." T. c., p. 547.

"The classification of the Percoid Fishes." *Ib.*, xii., p. 111.

"Note on *Myxine capensis*." T. c., p. 229.

"Fishes from Peru, collected by Dr. H. O. Forbes." T. c., p. 278.

"Fishes from the River Ucayali, Peru, collected by Mr. Mounsey." T. c., p. 281.

"The Fishes of the San Juan River, Colombia." T. c., p. 462.

"*Phallostethus dunckeri*, a remarkable new Cyprinodont Fish from Johore." T. C., p. 548.

"Description of a new Loricariid Fish of the genus *Plecostomus* from Rio Janeiro." T. c., p. 555.

Pterobranchia.

By S. F. Harmer, F.R.S., and W. G. Ridewood :—

"The Pterobranchia of the Scottish National Antarctic Expedition (1902–1904)."
Trans. Roy. Soc. Edinb., xlix. Pt. iii., p. 531.

Mollusca.

By G. C. Robson :—

"On *Aporemodon*, a remarkable new Pulmonate genus."
Ann. Mag. Nat. Hist., (8), x., 1913, p. 425.

"*Helminthochiton æquivoca*, n. sp. from the L. Ordovician, Bohemia." Geol. Mag., Dec. 5, x., 1913, p. 302.

"On some remarkable Shell monstrosities."
Proc. Malac. Soc., x., 1913, p. 274.

"Note on *Glyptorhagada silveri*." *Ib.*, p. 265.

By E. A. Smith, I.S.O. :—

"Note on *Murex mancinella*, Linn." *Ib.*, p. 287.

"On a small collection of marine shells from Henderson Island." Ann. Mag. Nat. Hist., (8), xii., 1913, p. 409.

Myriopoda.

By A. S. Hirst :—

"On a second Indian species of the genus *Termitodesmus* (*T. fletcheri* sp. n.)."
Ann. Mag. Nat. Hist. (8), xi., p. 481.

Arachnida.

By A. S. Hirst :—

"Percy Sladen Trust Expedition to the Indian Ocean in 1905. Second Report on the Arachnida—The Scorpiones, Pedipalpi, and Supplementary Notes on the Opiliones and Pseudoscorpiones."
Trans. Linn. Soc. (2), xvi., p. 31.

"On three new species of Gamasid Mites found on Rats."
Bull. Ent. Res., iv., p. 119.

Crustacea.

By Dr. W. T. Calman :—

"Note on the Brachyuran genera *Micippoides* and *Hyastenus*." Ann. Mag. Nat. Hist. (8), xi., p. 312.

"Two cases of Abnormal Appendages in Crabs."
T. c., p. 399.

"A new species of the Crustacean genus *Thaumastocheles*."
Op. cit. (8), xii., p. 229.

"On *Aphareocaris*, nom. nov. (*Aphareus*, Paulson) a genus of the Crustacean family Sergestidæ."
Journ. Linn. Soc. Zool., xxxii., p. 219.

CRUSTACEA—*continued.*

"On Freshwater Decapod Crustacea (Families Potamonidæ and Palæmonidæ) collected in Madagascar by the Hon. Paul A. Methuen."
Proc. Zool. Soc., 1913, p. 914.

By Dr. W. A. CUNNINGTON:

"Zoological Results of the third Tanganyika Expedition. Report on the Branchiura."
Proc. Zool. Soc., 1913, p. 262.

By G. P. FARRAN;

"Plankton from Christmas Island, Indian Ocean.—ii. On Copepoda of the genera *Oithona* and *Paroithona*."
Proc. Zool. Soc., 1913, p. 181.

The following paper is based partly on material in the British Museum:—

By STANLEY KEMP:—

"An account of the Crustacea Stomatopoda of the Indo-Pacific Region." Memoirs Indian Museum, iv., No. 1.

Polyzoa.

By S. F. HARMER, F.R.S.:—

"The Polyzoa of Waterworks."
Proc. Zool. Soc., 1913, p. 426.

Porifera.

By R. KIRKPATRICK:—

"Note on the occurrence of the Euplectellid Sponge *Regadrella phœnix* O. Schmidt, off the South African Coast." Ann. South African Museum, xiii., 1913.

V.—*Acquisitions.**

MAMMALIA.

The additions to this class during the past year number two thousand one hundred and twenty-nine:—

Special attention may be directed to the large collections of Indian Mammals presented by the Bombay Natural History Society; to the collection of New Guinea Mammals presented by the Subscribers to the Utakwa Expedition; to a collection of Mammals from Algeria presented by the Hon. Walter Rothschild, F.R.S.; to the large collection of East African Mammals presented by Mr. G. P. Cosens; and to the collection of Mammals from Ecuador presented by Mr. Oldfield Thomas, F.R.S.

* A table showing the number of specimens added during the year is given on page 174.

MAMMALIA—*continued.*

Europe.

Two paddles, two scapulæ and other portions of the skeleton of a Sperm Whale, *Physeter catodon*, from near Rockall; *presented by Carl F. Herlofson, Esq.*

Two paddles of a Sperm Whale, *Physeter catodon*, from Lochend, Shetland; purchased.

The skeleton of a Bottle-nosed Whale, *Hyperoodon rostratus*, from Unionhall, co. Cork; *presented by the Board of Trade.*

The skeleton of a White-sided Dolphin, *Lagenorhynchus acutus*, from Fair Isle; *presented by the Board of Trade.*

The head of a Common Dolphin, *Delphinus delphis*, from Achill Island, co. Mayo; *presented by the Board of Trade.*

A female and calf of Risso's Dolphin, *Grampus griseus*, from Torbay, Devonshire; *presented by the Board of Trade.*

The skeleton of a Lesser Rorqual, *Balænoptera acutorostrata*, from Arbroath; *presented by the Board of Trade.*

Two flippers, and a piece of baleen of a Lesser Rorqual, *Balænoptera acutorostrata*, from Crail, Fife; *presented by the Board of Trade.*

Portions of the skeleton of "Imelda," a thoroughbred mare claiming descent "Stockwell," "Hermit" and "Voltigeur"; *presented by A. G. Burchardt, Esq.*

A Fox from Waterford, Ireland; *presented by the late Major G. E. H. Barrett-Hamilton.*

A Polecat from Radnorshire; *presented by Capt. C. Venables Llewelyn.*

Three Badgers from Surrey; *presented by Addis Price, Esq.*

An Albino Mole from Cornwall; *presented by Messrs. Matthias Dunn and Sons.*

A Pigmy Shrew from Lundy Island; *presented by H. St. J. K. Donisthorpe, Esq.*

Two Water shrews from Marlow; *presented by Major E. W. Mayor.*

A Vole from Texel Island; *presented by F. H. Sikes, Esq.*

Asia.

Four cats from Persia; *presented by Major P. M. Sykes.*

A Tiger and a head of an Indian Rhinoceros, from Nepal; *presented by His Majesty the King.*

Six hundred and twenty mammals collected by Messrs. G. C. Shortridge and C. A. Crump in India; *presented by the Bombay Natural History Society.*

MAMMALIA—*continued.*

Eighteen mammals from Simla; *presented by P. T. L. Dodsworth, Esq.*

Five mammals from India; *presented by J. E. M. Mellor, Esq.*

Forty-five mammals from Ceylon; *presented by J. C. F. Fryer, Esq.*

Ten mammals from Siam; *presented by T. H. Lyle, Esq.*

Four Langur Monkeys from Siam; *presented by K. G. Gairdner, Esq.*

Four mammals from Turkestan; *presented by the Hon. N. C. Rothschild.*

Twenty-three mammals from Perak and Ceram; *presented by E. Stresemann, Esq.*

A Shrew from the Andaman Islands; *presented by C. G. Rogers, Esq.*

A Tarsier, *Tarsius spectrum*, from Sarawak; *presented by J. C. Swayne, Esq.*

Forty mammals from China; *presented by E. B. Howell, Esq.*

Nineteen mammals from China; received in exchange from the Harvard Museum.

Twenty mammals from Sze-chwan, China; *presented by W. R. Brown, Esq.*

Nineteen mammals from Korea; received in exchange from the American Museum of Natural History, New York.

Africa.

Five mammals from Algeria; *presented by P. A. Buxton, Esq.*

Ninety mammals from S.W. Algeria; *presented by the Hon. Walter Rothschild, F.R.S.*

Twenty-two mammals from Liberia; purchased.

Fifteen mammals from Kabwir, Northern Nigeria; *presented by J. C. Fox, Esq.*

Two Gorilla skulls from Southern Nigeria; *presented by Elphinstone Dayrell, Esq.*

Fourteen mammals from the Cameroons; purchased.

Eight mammals from Angola; *presented by H. F. Varian, Esq.*

The type of a new Cat, *Felis servalina larseni*, from Angola; *presented by J. Sidney Bowskill, Esq.*

Nine mammals from the Sankuru River, Congo; *presented by H. Wilson, Esq.*

Three mammals from Port Sudan; *presented by Dr. Waterfield.*

MAMMALIA—*continued.*

Six mammals from Abyssinia; *presented by L. C. G. Clarke, Esq.*

Two hundred mammals from East Africa; *presented by G. P. Cosens, Esq.*

Ten mammals from East Africa; *presented by Gilbert Blaine, Esq.*

Four mammals from Nyasaland; *presented by Colonel Manning.*

Four mammals from Uganda; *presented by C. C. Gowdey, Esq.*

Five mammals from Uganda; *presented by Dr. R. van Someren.*

Five mammals from Zanzibar; *presented by Dr. W. M. Aders.*

Four mammals from Lake Kivu; *presented by Sir Alfred Sharpe, K.C.M.G.*

Ten mammals from Jubaland; *presented by I. N. Dracopoli, Esq.*

Nine mammals from Angoniland; *presented by Surgeon-General Sir David Bruce, C.B., F.R.S.*

America, South.

Fifteen mammals from South America; received in exchange from the Berlin Museum.

Thirty-eight mammals from British Guiana; *presented by F. V. McConnell, Esq.*

Nine mammals from the Lower Amazons; *presented by the Goeldi Museum, Para.*

Eighteen mammals from St. Catharina; *presented by the Hon. N. C. Rothschild.*

Twelve mammals from Argentina; *presented by F. H. F. Parkes, Esq.*

Forty-two mammals from Buenavista and the Rio Toche; received in exchange from the American Museum of Natural History, New York.

One hundred and thirty-seven mammals from Ecuador; *presented by Oldfield Thomas, F.R.S.*

Sixteen mammals from Choco, Colombia; purchased.

Four mammals from Quilpue, Chili; *presented by J. A. Wolffsohn, Esq.*

Nine skeletons and fifteen skulls of Peruvians and the skeleton of a Peruvian dog, all from a burial ground dating from pre-Inca times; purchased.

A human skull from an ancient burial ground at Quiagua, N. Chili; *presented by W. C. Pringle, Esq.*

MAMMALIA—*continued.*

Australasia.

One hundred and twenty-seven mammals from the Utakwa and Setakwa Rivers, New Guinea; *presented by the subscribers to the Wollaston Expedition to Dutch New Guinea.*

Thirty-nine mammals from Melville Island; purchased.

AVES.

The acquisitions number eight thousand seven hundred and fifty-five. Of these, the most noteworthy are as follows:—

Europe.

Sixty eggs of British birds; *presented by J. H. Jobson, Esq.*

Fourteen examples of British birds; *presented by Geoffrey Harley, Esq.*

Fourteen birds from county Waterford; *presented by the late Major G. E. H. Barrett-Hamilton.*

Parent bird and three young of *Strepsilas interpres:* parent birds, young, and egg of *Tringa minuta* from Kolguev Island; parent, young, and egg of *Squatarola helvetica* from Waigats Island; parent bird, young and eggs of *Eudromias morinellus* from Dolga Bay; *presented by Colonel H. W. Feilden, C.B.*

Six nestling examples of the Woodcock and four hybrid ducks—*Mareca penelope* × *Dafila acuta, Anas boscas* × *Mareca penelope, Mareca americana* × *Anas boscas, Mareca americana* × *Mareca sibilatrix; presented by Sir Richard Graham, Bart.*

Forty-one birds from Hungary; *presented by the Hon. N. C. Rothschild.*

Forty birds from various localities in Scotland and the adjacent islands; *presented by W. R. Ogilvie-Grant, Esq.*

Fifty-six birds from Inverness, collected by Mr. C. H. B. Grant; purchased.

Twenty-one birds from the Outer Hebrides, collected by Mr. D. Anderson, *presented by W. R. Ogilvie-Grant, Esq.*

Twenty-nine birds from the Inner Hebrides, collected by Mr. P. D. Montague; *presented by W. R. Ogilvie-Grant, Esq.*

One hundred and twenty-four British birds, collected by Mr. D. A. Bannerman; purchased.

Thirty-seven birds from Somersetshire, collected by Mr. F. H. Laurence Whish; purchased.

An immature male example of the Carolina Crake (*Porzana carolina*) from Stornoway, N.B.; *collected and presented by A. Blain, Esq.*

An example of the St. Kilda Wren (*Troglodytes hirtensis*) received in exchange from the Royal Scottish Museum, Edinburgh.

AVES—*continued.*

Asia.

Thirty-nine birds, including the type specimen of *Oreocincla whiteheadi*, from the North-west Frontier Provinces of India; *presented by Capt. C. H. T. Whitehead.*

Four hundred and thirty-three eggs from North Cachar and Khasia Hills, N.E. India; *presented by E. C. Stuart Baker, Esq.*

Fourteen birds from Burma, including the type specimens of *Suya criniger cooki* and *Prinia inornata burmanica; presented by Major H. H. Harington.*

Six birds from the Chin Hills, Burma; *presented by C. Hopwood, Esq.*

Twenty-one birds from the Shan States, Burma; *presented by J. P. Cook, Esq.*

One hundred and twenty-eight birds from the Shan States, Burma; *presented by Capt. F. E. W. Venning, I.A.*

Eight birds, including examples of *Acrocephalus tangorum*, not previously represented in the Collection, and 12 eggs from China; *presented by J. D. La Touche, Esq.*

Eleven birds from Yunnan; *presented by E. B. Howell, Esq.*

Eighty-three birds from Mount Arizan, Formosa, including the types of four newly described species, collected by Mr. W. Goodfellow; purchased.

A male example of *Calophasis mikado*, and an egg of *Gennæus swinhoei*, from Formosa; *presented by Walter Goodfellow, Esq.*

A female specimen of the Mikado Pheasant (*Calophasis mikado*), from Mount Arizan, Formosa; *presented by Mrs. E. J. Johnstone.*

Africa.

A Shoe-bill Stork (*Balænicps rex*) from Khartoum; purchased.

The type specimen of *Caprimulgus ludovicianus* from South West Abyssinia; *presented by Colonel R. Stevenson Clarke.*

Eighteen birds from British East Africa; *presented by the Rev. F. C. R. Jourdain.*

Two hundred and forty-six birds, 144 eggs, and one nest, from Uganda; *presented by L. M. Seth-Smith, Esq.*

Twenty-six birds from Mabira Forest, Uganda; collected by Mr. J. Hughes; purchased.

Two hundred and seventy-one birds from Equatorial Africa; *presented by S. A. Neave, Esq.*

Thirteen birds from Zanzibar; *presented by W. M. Aders, Esq.*

AVES—*continued.*

Two hundred and eighty-seven birds from Southern Arabia, including the type specimens of eight newly described species; collected by Mr. G. W. Bury; purchased.

One hundred and forty-five eggs from South Africa; collected by the late Mr. Bertram E. Jupp; purchased.

Eleven birds from the South Congo State; *presented by Mrs. M. Roby.*

Thirty-two birds, including the type specimen of *Laniarius helenæ*, also seven eggs and three nests from Sierra Leone; *presented by Major H. Kelsall, R.A.*

Twenty-five birds and three eggs from Gambia; *presented by Gilbert Blaine, Esq.*

Two hundred and thirty-four birds from the Canary Islands, including the type specimens of newly described subspecies; collected by Mr. D. A. Bannerman; purchased.

The skeletons of three Laughing Gulls, *Larus cachinnans*, from the Canary Islands; *presented by D. A. Bannerman, Esq.*

The skeletons of seven Ringed Plovers, *Ægialitis*, from the Cape Verde Islands; *presented by D. A. Bannerman, Esq.*

America, North.

Fifteen birds from Alberta, Western Canada; *presented by A. Thornburn, Esq.*

Sixty birds from Colorado; collected by Mr. W. Cross; exchanged.

Fifty-eight birds from British Columbia; collected by Mr. J. Wynne; purchased.

Six hundred and one birds from the United States; collected by Willoughby P. Lowe, Esq.

One hundred and seventy-eight birds from the United States and British Columbia; received in exchange from J. H. Fleming, Esq.

Seven birds from North-West Mexico and other localities, including an example of *Lagopus welchi*, which was previously unrepresented in the Museum series; received in exchange from the Museum of Comparative Zoölogy, Cambridge, Mass.

America, Central and South.

Three hundred and seventeen birds from British Honduras; *presented by F. D. Godman, Esq., F.R.S.*

One hundred and sixteen birds from Costa Rica; *presented by F. D. Godman, Esq., F.R.S.*

Four birds from British Guiana; *presented by F. V. McConnell, Esq.*

Sixty-six birds from Miritiba, N.E. Brazil; collected by Mr. F. Schwanda; purchased.

AVES—*continued.*

Two hundred and twenty-seven eggs from Buenos Aires; *presented by Ernest Gibson, Esq.*

Three thousand three hundred and fifteen Humming-birds, seven hundred and twenty of which are mounted in forty-nine cases and placed in the Exhibition Galleries; *presented by R. J. Balston, Esq.*

An immature Rhea; *presented by Sir Edmund Loder, Bart.*

Nine birds from Trinidad; *presented by Collingwood Ingram, Esq.*

Forty-six birds from the West Indian and Bermuda Islands, including the type specimen of *Carduelis carduelis bermudiana*; *presented by John N. Kennedy, Esq.*

Forty-five eggs from the Falkland Islands; *presented by Rupert Vallentin, Esq.*

One hundred and fifty-two birds and fifty-seven eggs from the islands off the coast of Peru; collected by Dr. H. O. Forbes; purchased.

Australasia and Pacific Ocean.

Seven birds from Australia; *presented by Miss A. Chirnside.*

Three hundred and fifty-nine birds, one egg, and one nest from New Guinea: collected by Mr. W. Goodfellow; purchased.

A mounted example of *Casuarius intensus* from Southern Dutch New Guinea; *presented by the Hon. Walter Rothschild, D.Sc., F.R.S.*

One hundred and seventy-four birds from Amboina; collected by Mr. C. Boden Kloss; *presented by the subscribers to the British Ornithologists' Union Expedition to New Guinea.*

Thirty birds from the Monte Bello Islands, W. Australia; *presented by P. D. Montague, Esq.*

Twenty-one birds from Henderson Island, South Pacific, including the types of three newly described species; *presented by D. R. Tait, Esq., and T. R. Jamieson, Esq.*

REPTILIA.

The additions number one thousand one hundred and thirty-seven, of which nine hundred and seventeen were received by presentation, one hundred and thirty-seven by purchase, and eighty-three by exchange.

The following are the most important:—

Europe.

Seven Reptiles from Montpellier; *presented by Prof. Duboscq.*

REPTILIA—*continued.*

Examples of a small Gecko, *Phyllodactylus europaeus*, from a small island near Hyères; *presented by Prof. L. Léger.*

Fourteen Lizards from Switzerland; received in exchange from the Basel Museum.

Ten Lizards from Italy and Dalmatia; *presented by M. G. de Southoff.*

Twenty-six Snakes from Italy; *presented by the Doria Museum, Genoa.*

Asia.

Examples of the rare *Lacerta brandti*, from Persia; *presented by Mr. L. A. Lantz.*

A remarkable variety of *Vipera ammodytes* from Transcaucasia; *presented by Col. A. Kaznakoff.*

Ten Reptiles from China, including a Snake (*Simotes vaillanti*) new to the Museum; *presented by the Shanghai Museum.*

Thirty-seven Reptiles from Formosa and the Loo Choo Islands; received in exchange from Dr. J. C. Thompson.

Four Snakes from Nepal and Assam; *presented by H. Stevens, Esq.*

Eight Reptiles from Northern India and Burma, including the type of a new Blind Snake (*Typhlops venningi*); *presented by Major F. Wall, I.M.S.*

Seven Reptiles from Kelantan, Malay Peninsula; *presented by Dr. J. D. Gimlette.*

Africa.

One hundred and two Reptiles from the Province Oran, Algeria; *presented by the Hon. Walter Rothschild, F.R.S., and Dr. E. Hartert.*

Sixteen Reptiles from Tripoli, collected by Dr. A. Andreini; *presented by the Doria Museum, Genoa.*

Sixteen Reptiles from the Egyptian Sudan and the Red Sea Province, collected by Capt. S. S. Flower; *presented by the Egyptian Government.*

Seventy-four Reptiles from the Trarza Province, Mauritania, collected by Mr. Audan; purchased.

Three Reptiles from Northern Nigeria, one being a snake (*Elapechis moebii*) new to the collection; *presented by J. M. Dalziel, Esq.*

Seventeen Reptiles from South Cameroon, collected by Mr. G. L. Bates; purchased.

Twelve Reptiles from British East Africa, collected by Willoughby P. Lowe, Esq.; *presented by Gordon P. Cosens, Esq.*

REPTILIA—*continued.*

America.

A Lizard (*Neoseps reynoldsi*) from Florida, new to the collection; *presented by the United States National Museum.*

The skeleton of a rare fresh-water Turtle (*Dermatemys mawi*) from British Honduras *presented by the Zoological Society of London.*

One hundred and forty-seven Reptiles from Mexico and Central America; *presented by F. D. Godman, Esq., F.R.S.*

Thirty-one Reptiles from the Bahamas, Cuba, San Domingo, and Porto Rico, including examples of several species new to the collection; received in exchange from the Museum of Comparative Zoölogy, Cambridge, Mass.

Twenty-six Reptiles from various parts of South America; *presented by the Doria Museum, Genoa.*

Eleven Reptiles from Brazil; *presented by Miss Kingsmill.*

Seventy-eight Reptiles from the Choco, Colombia, including types of six new species (*Cinosternum spurrelli, Anolis breviceps, Anadia vittata, Homalocranium coralliventre, Elaps microps, Leptognathus spurrelli*); *presented by Dr. H. G. F. Spurrell.*

Five Reptiles obtained in Eastern Peru by Mr. A. E. Pratt, including the type of a new Snake (*Leptognathus latifasciata*); purchased.

Australasia and Pacific Ocean.

One hundred and fifty-one Reptiles from Dutch New Guinea, among them several species new to the collection or to Science; *presented by the Subscribers to the British Ornithologists' Union Expedition to Dutch New Guinea.*

One hundred and thirteen Reptiles from Dutch New Guinea, including examples of several species new to the collection or to Science; *presented by the Subscribers to the Wollaston Expedition to Dutch New Guinea.*

Seventy-three Reptiles from Amboina; *presented by the Subscribers to the British Ornithologists' Expedition to Dutch New Guinea.*

Eight Reptiles from Hermite Island, W. Australia, including a Lizard (*Ablepharus muelleri*) new to the collection, and the type of a new Blind Snake (*Typhlops ammodytes*); *presented by P. D. Montague, Esq.*

The types of two new Lizards (*Gymmodactylus asper* and *Pygopus schraderi*) discovered by Mr. P. Schrader in Western New South Wales; purchased.

Ten Lizards from Henderson Island, S. Pacific; *presented by D. R. Tait, Esq., and T. R. Jamieson, Esq.*

Batrachia.

The additions number four hundred and four, three hundred and nineteen of which were obtained by presentation and eighty-five by purchase. The following are worthy of notice :—

Europe.

Twenty-six Newts from Brittany; *presented by Prof. F. Guitel.*

Twenty-two Batrachians from the Charente; purchased.

Eleven Batrachians from Montpellier; *presented by Prof. Duboscq.*

Ten Batrachians from Moscow; *presented by Mr. L. A. Lantz.*

Asia.

Eight Toads from N. E. Persia; *presented by Capt. H. H. Thoburn.*

Fifteen Frogs from S. Waziristan; *presented by Major G. E. Bruce.*

Three Batrachians from China; *presented by the Shanghai Museum.*

Africa.

Ten Toads from the Trarza Province, Mauritania, collected by M. Audan; purchased.

Thirty-one Batrachians from South Cameroon, collected by Mr. G. L. Bates, including the type of a new Toad (*Nectophryne batesii*); purchased.

Ten Batrachians from British East Africa, collected by Mr. Willoughby P. Lowe; *presented by Gordon P. Cosens, Esq.*

Ten Frogs from Lake Matanda, Uganda; *presented by Major Jack.*

The co-type of a new Frog, *Heleophryne regis*, discovered at Knysna, Cape Colony, by Mr. J. A. Rex; *presented by J. Hewitt, Esq.*

America, South.

Thirty-one Batrachians from various parts of South America, among them a Frog (*Paludicola henseli*) new to the collection; *presented by the Doria Museum, Genoa.*

A rare Caecilian (*Typhlonectes compressicauda*) from Manaos, Brazil; *presented by J. Paul Arnold, Esq.*

The co-type of a new Frog (*Telmatobius luseni*) from Parana, Brazil; *presented by Prof. E. Lönnberg.*

Sixty-eight Batrachians from the Choco, Colombia, including the types of five new species (*Dendrobates aurotœnia*,

BATRACHIA—*continued.*

Bufo hypomelas, Agalychnis spurrelli, Cœcilia intermedia) ; *presented by Dr. H. G. F. Spurrell.*

Twenty-two Batrachians collected in Peru by Mr.J. Mounsey ; purchased.

Ten Batrachians collected in Peru by Messrs. H. and C. Watkins ; purchased.

Australasia.

Twenty-eight Batrachians from Dutch New Guinea, among them examples of a Frog (*Chaperina brevipalmata*) new to the collection, and the type of a new species (*Liophryne kampeni*) ; *presented by the Subscribers to the British Ornithologists' Union Expedition to Dutch New Guinea.*

Forty-eight Batrachians from Dutch New Guinea, among them examples of three species new to the collection (*Rana grisea, Cophixalus crucifer, Hyla rhacophorus*, and the types of three new species (*Sphenophryne klossi, Hyla wollastoni, Nyctimantis granti*) ; *presented by the Subscribers to the Wollaston Expedition to Dutch New Guinea.*

PISCES.

The additions number one thousand eight hundred and sixty-nine, of which one thousand six hundred and eighty-one were acquired by presentation, one hundred and one by purchase, and eighty-seven in exchange. The following are the most important :—

From various Localities.

Seventy-eight fishes from various localities, including the types of three new Cyprinodonts (*Limia arnoldi, L. ornata* and *L. nigrofasciata*) from Haiti ; *presented by Herr J. P. Arnold.*

Europe.

A rare deep-sea Angler Fish (*Melanocetus johnsonii*) from the North Atlantic ; *presented by the Hon. Walter Rothschild, F.R.S.*

Three Hag-fishes (*Myxine glutinosa*) from deep water of the Färoe-Shetland Channel ; *presented by Professor D'Arcy W. Thompson, C.B.*

A semi-albino Plaice (*Pleuronectes platessa*) from Aberdeen ; *presented by F. Cooke, Esq.*

An albino Plaice (*Pleuronectes platessa*) from the Dogger Bank ; *presented by Messrs. J. W. Stookes & Co.*

A Char (*Salmo willughbii*), from Loch Quoich ; *presented by Captain E. Ellice.*

PISCES—*continued.*

A Vendace (*Coregonus gracilior*) from Derwentwater; purchased.

Two Sting-Rays (*Trygon pastinaca*) from Christchurch Bay; *presented by E. H. Pearson, Esq.*

A Pelamid (*Pelamys sarda*) and a Boar Fish (*Balistes capriscus*) from Weymouth; *presented by W. Moggeridge, Esq.*

Twenty-three Scald-fish (*Arnoglossus laterna, A. lophotes* and *A. grohmanni*) from Plymouth; *presented by R. S. Clark, Esq.*

The cast of a large Salmon (*Salmo salar*) from the Wye; *presented by J. A. Hutton, Esq.*

Three Sea-trout (*Salmo labrax*) from the Black Sea; *presented by Dr. Sergius Sernov.*

Asia.

Forty-eight fishes from Waziristan, including the types of two new Cyprinids (*Schizocypris brucei* and *Discognathus wanœ*); *presented by Major G. E. Bruce.*

Twenty-three fishes from Southern Asia, including the types of a remarkable new Cyprinodont (*Phallostethus dunckeri*) from Johore; received in exchange from Dr. G. Duncker.

The types of a new Cyprinid (*Rasborichthys altior*) from Singapore; *presented by Herr Hans Gaukel.*

Two specimens of a Fighting-fish (*Betta bellica*) from Sumatra, new to the collection; *presented by Herr E. Hoffmann.*

Africa.

One hundred and seventy-six marine Fishes from Mombasa, including examples of *Clupea punctata, Lethrinus insulindicus* and *Chætodon biocellatus*, new to the collection; *presented by R. J. Cuninghame, Esq.*

Twenty-six Fishes, including the types of a new Cyprinodont (*Haplochilus kingii*) from the Nile; *presented by H. H. King, Esq.*

A Cat fish (*Parauchenoglanis macrostoma*) from the Ogowe, new to the collection; *presented by the Paris Museum.*

Thirteen specimens of *Polypterus* from the Lower Niger; *presented by W. J. Crocombe, Esq.*

Thirty Fishes from the Nyong River, South Cameroon, including the types of four new species (*Clarias oxycephalus, Auchenoglanis longiceps, Synodontis steindachneri* and *Pelmatochromis caudofasciatus*), collected by Mr. G. L. Bates; purchased.

PISCES—*continued.*

Ten Fishes from the Upper Congo, including the types of a new Cichlid (*Tilapia stigmatogenys*); *presented by the Congo Museum, Tervueren.*

Twenty-nine Fishes from Kasai, Congo, including the types of two new species (*Barbus lujæ* and *Haplochilus multifasciatus*); *presented by the Luxemburg Museum.*

Two Hag-fishes (*Myxine capensis*) from the Cape, and six Fishes representing three species new to the collection (*Labrichthys ornatus, Bovichthys diacanthus* and *Chilodactylus monodactylus*) from Tristan da Cunha; *presented by the Director of the South African Museum, Cape Town.*

America, North.

Six Fishes from North Carolina, including examples of a Ray (*Rhinobatus lentiginosus*) and a Flat-fish (*Ancylopsetta quadrocellata*) new to the collection; *presented by R. J. Coles, Esq.*

America, Central and South.

Two co-types of a Cyprinodont (*Limia dominicensis*) from Haiti, received in exchange from the Paris Museum.

Two hundred and twenty-five Fishes from Mexico and Central America, including examples of three species (*Chirostoma labarcae, Cichlosoma punctatum* and *Batrachoides goldmanni*) new to the collection; *presented by F. D. Godman, Esq., F.R.S.*

Three examples of a Cyprinodont (*Gambusia episcopi*) from Panama, new to the collection; *presented by Herr G. Gerlach.*

Sixty-three fresh-water Fishes from South America, including the types of five new species (*Plecostomus rachovii, Corydoras macropterus, Characidium rachovii, Poeciliopsis isthmensis,* and *Crenicichla notophthalmus*); *presented by Herr A. Rachow.*

Eight Fishes from Manaos, including specimens of *Cynodon gibbus* and *Loricaria nudirostris*, new to the collection; *presented by E. Stanley Sutton, Esq.*

Seventy-six Fishes from off Cape Frio, Brazil, including the types of three new species (*Malacorhina cirrifer, Prionotus brachychir* and *Xystreurys brasiliensis*); collected by the British Antarctic ("Terra Nova") Expedition, 1910.

Ninety-nine Fishes from the San Juan River, Colombia, including the types of twelve new species; *presented by Dr. H. G. F. Spurrell.*

Forty-seven Fishes from the River Ucayali, Peru, including the types of two new Siluroids (*Rhamdia mounseyi* and *Loricariichthys ucayalensis*); collected by Mr. Mounsey; purchased.

Seventy-three Fishes from Peru, including the type of a new Angler (*Chirolophius forbesii*); *presented by Dr. H. O. Forbes.*

PISCES—*continued.*

Australasia and Pacific Ocean.

Twelve Fishes from Easter Island, including the types of four new species (*Acanthistius fuscus, Anampses pulcher, Labrichthys fuentesi* and *Monacanthus paschalis*); *presented by Professor Francisco Fuentes.*

Forty fresh-water Fishes from New Guinea, including several co-types and examples of species new to the collection; received in exchange from Professor Max Weber.

Seven Fishes from the Stekwa and Utakwa Rivers, Dutch New Guinea, including examples of *Ambassis reticulatus* and *Anisocentrus rubrostriatus* new to the collection; *presented by the Subscribers to the Wollaston Expedition to Dutch New Guinea.*

Two hundred and sixteen Fishes from New Guinea, Goram and Ceram, including examples of several species new to the collection; *presented by the Subscribers to the British Ornithologists' Union Expedition to Dutch New Guinea.*

Sixteen Fishes from the Monte Bello Islands, Western Australia; *presented by P. D. Montague, Esq.*

Ninety-four Fishes from New Zealand, including the types of ten new species; collected by the British Antarctic ("Terra Nova") Expedition, 1910.

Antarctica.

One hundred and fifty Fishes from Victoria Land, including the types of twelve new species; collected by the British Antarctic ("Terra Nova") Expedition, 1910.

Twenty-one Fishes from Wilhelm Land, including co-types of *Trematomus brachysoma, Austrolycichthys brachycephalus* and *Lycodichthys antarcticus;* received in exchange from the Berlin Museum.

A co-type of a recently described Notothenioid Fish (*Dolloidraco longidorsalis*) from Graham Land; received in exchange from the Paris Museum.

HEMICHORDATA and PHORONIDEA.

The only additions of Pterobranchia are four specimens of *Cephalodiscus agglutinans* Harmer and Ridewood, a species recently described from Station 346, 56 fathoms, of the "Scotia" Scottish National Antarctic Expedition; *presented by the Scottish Oceanographical Laboratory.*

Another interesting addition is *Phoronis ovalis* S. Wright, from the Northumberland Coast; *presented by Professor A. Meek.*

Mollusca.

The collection of British land and fresh water Molluscan shells formed by F. H. Sikes, Esq., and presented by him to the Museum, constitutes the most important addition to this part of the collection during the year. It consists of some three thousand one hundred shells, and is rich in named varieties obtained from celebrated collectors. The whole of the collection is carefully labelled and should be of considerable value to workers on variation in the Mollusca.

A collection of Nudibranchia from the Red Sea, purchased from Dr. E. Bannwarth, calls for special attention, as the specimens have been preserved by a method which appears to be successful in maintaining the brilliant colours of these animals and should render them an attractive exhibit for the Shell Gallery.

In addition to the above, four thousand and nine specimens have been presented, and one thousand four hundred and eighty-eight purchased during the year, of which special mention may be made of the following series:—

General.

A collection of "Trade Shells"; *presented by the Port of London Authority.*

A collection of two hundred and eighty-nine shells from Japan, the Malay Archipelago, and Australia; *presented by C. S. Betton, Esq.*

Europe.

One thousand one hundred and thirty-four shells of *Pisidium*, the figured specimens in "The Catalogue of British Species of *Pisidium*"; *presented by B. B. Woodward, Esq.*

Asia.

Thirteen shells (all co-types) from the Lake of Tiberias; *presented by Dr. N. Annandale.*

Four examples including the type of *Aporemodon tomlini* from Singapore; *presented by J. R. le B. Tomlin, Esq.*

Fourteen shells, including types, from Beilan-Beilan Id., Moluccas; purchased.

One hundred and seventy-four land and fresh-water shells from Chungking; *presented by W. R. Brown, Esq.*

Fifteen type shells from Japan; purchased.

Africa.

One hundred and seventy-two land shells from various localities in Algeria; *presented by the Hon. Walter Rothschild, F.R.S.*

MOLLUSCA—*continued.*

One thousand three hundred and forty-four land and fresh-water Mollusca (mainly shells) from the Upper Nile, including types of new species ; *presented by Mrs. J. Longstaff.*

Sixty-four Mollusca from the Cameroons ; purchased.

One hundred and nine land and fresh-water shells from the Mabira Forest, Uganda ; *presented by R. L. Harger, Esq.*

America, Central and South.

One hundred and fifty-nine Lamellibranch shells from the Falkland Islands ; *presented by J. E. Cooper, Esq.*

Eleven shells of *Urocoptis, Ramsdenia,* and *Brachypodella,* from Cuba ; *presented by C. T. Ramsden, Esq.*

One hundred and sixty-eight marine Mollusca, from Peru ; purchased.

Australasia and Pacific Ocean.

Twenty-three land and marine Mollusca from Easter I. ; *presented by Professor Francisco Fuentes.*

One hundred and sixty-eight shells, principally marine, from the Solomon Is. ; purchased.

One hundred and forty-five marine shells from Henderson Island ; *presented by J. R. Jameson, Esq., and D. R. Tait, Esq.*

Forty-two land and fresh-water Mollusca from Dutch New Guinea, including types of new genera and species ; *presented by the Subscribers to the Wollaston Expedition to Dutch New Guinea.*

Two hundred and fifty-two shells from North-West Australia ; purchased.

MYRIOPODA.

The acquisitions number three thousand seven hundred and eighty-eight. The following are worthy of special notice :—

The Koch collection of Myriopoda, consisting of three thousand seven hundred and thirty-three specimens from various localities ; including the types of eighty species ; purchased.

Seven specimens (the types) of a new species (*Termitodesmus fletcheri*) of Millipede found in the nests of an Indian termite ; *presented by T. Bainbrigge Fletcher, Esq.*

PROTOTRACHEATA.

The only examples added to the collection are specimens of *Opisthopatus cinctipes,* from Durban ; *presented by the Durban Museum.*

Arachnida.

Miscellaneous.

The accessions number ten thousand five hundred and fourteen, of which the following are the most important:—

The first part of the Koch collection of Arachnida, numbering eight thousand six hundred and fifty-nine specimens, including the types of numerous species; purchased.

Five hundred parasitic Acari; *presented by the Hon. N. C. Rothschild.*

Three hundred and eighty-two Arachnida from various localities; *presented by the Imperial Bureau of Entomology.*

Thirty-nine mounted preparations of Acari, chiefly of the family Gamasidæ; purchased.

Europe.

Prof. Berlese's "Acarotheca Italica," consisting of two hundred species of Italian Acari mounted as microscopical preparations, with a volume of explanatory text; purchased.

One hundred and seventy-six Arachnida, collected by Dr. Anton Krausse in Sardinia, including the types of two new Mites of the family Trombidiidæ described by Prof. A. Berlese; purchased.

Asia.

Forty-two parasitic Acari, including the types of a new species (*Dermanyssus muris*), captured on the species of rats frequenting human habitations in Madras City and Colombo; *presented by Dr. L. F. Hirst.*

Africa and Indian Ocean.

Five hundred Mites, including the types of two new species, captured on Rats and other Rodents frequenting human habitations in Egypt; *presented by the Lister Institute of Preventive Medicine.*

Twenty-one Arachnida from Cape Colony, including co-types of four species; *presented by John Hewitt, Esq.*

Seventeen Arachnida from the Seychelles, including the types of two new species; *presented by Professor J. Stanley Gardiner, F.R.S.*

America.

Forty-seven Ticks from North America, including co-types of two new species; received in exchange from Mr. Nathan Banks.

Pacific Ocean.

Thirty-three Oribatid Mites from Hawaii, including the type of a new species; *presented by the Joint Committee of the Royal Society and British Association for the Exploration of the Sandwich Islands.*

Crustacea.

The principal additions made during the year were the Koch collection of Woodlice, estimated to contain about one thousand three hundred specimens; and a collection of Copepod parasites of Fishes, comprising five hundred and fifteen specimens, presented by Dr. Thomas Scott and Mr. Andrew Scott, being the material described in their recent Monograph "The British Parasitic Copepoda," Vol. I. The other accessions number one thousand one hundred and twenty, of which the following are the most important:—

Europe.

Five specimens of a Well-shrimp from Chertsey; *presented by T. J. Leney, Esq.*

Ten specimens of a Well-shrimp from Clerkenwell; *presented by H. F. Fermor, Esq.*

Ten specimens of a Peruvian crab (*Pilumnoides perlatus*) found living in empty shells of a Barnacle at Plymouth; purchased.

An abnormal specimen of the Edible Crab from Dartmouth; purchased.

Six specimens of a terrestrial Amphipod from Bournemouth; *presented by W. Omer Cooper, Esq.*

Claw of a very large Lobster from Mull; *presented by Miss C. A. Bell.*

Two specimens of a Whale-parasite from a Finner Whale, taken off St. Kilda; *presented by Carl F. Herlofson, Esq.*

Asia.

Twenty-three specimens of fresh-water Crustacea from Palestine; *presented by Dr. N. Annandale.*

Four River-crabs from Persia; *presented by Major P. Molesworth Sykes and Captain Wilson.*

Twenty co-types of a new species of Mysidæ from Bombay; *presented by Dr. N. Annandale.*

Two paratypes of a new species of River-crab from Cochin; *presented by Dr. J. R. Henderson.*

Seventy-seven River-crabs and Prawns from Chungking; *presented by W. R. Brown, Esq.*

Africa and Indian Ocean.

Eleven specimens of Wood-lice and twelve of Fish-parasites from Africa; *presented by the Imperial Bureau of Entomology.*

Eight co-types of a new River-shrimp from Morocco; *presented by Professor E. L. Bouvier.*

Two specimens of River-crabs carrying young, from Nigeria; *presented by Major W. A. C. Cockburn.*

CRUSTACEA—*continued.*

Thirteen specimens of Crustacea taken from a submarine telegraph cable between Bathurst and Sierra Leone; *presented by F. H. Preston, Esq.*

One hundred and twelve specimens of Fish-parasites (Argulidæ) from Central Africa; *presented by the Tanganyika Exploration Committee.*

Nine specimens of Crustacea from the Sudan; *presented by G. W. Grabham, Esq.*

Sixty-seven specimens of Crustacea from Suez; purchased.

One hundred and sixty-one terrestrial Isopoda (comprising co-types of eleven species) from the Islands of the Western Indian Ocean ("Sealark" Expedition); *presented by Professor J. Stanley Gardiner, F.R.S.*

One hundred and forty specimens of fresh-water Shrimps from the Seychelles; *presented by Professor J. Stanley Gardiner, F.R.S., and the University Museum of Zoology, Cambridge.*

America.

Eleven parasitic Crustacea from the West Indies; *presented by Captain A. Morrell.*

Thirty-four terrestrial Isopods from Trinidad; *presented by Collingwood Ingram, Esq.*

Twenty-eight specimens of Crustacea from Vancouver Island and Puget Sound; *presented by F. A. Potts, Esq.*

Three River-crabs from Colombia; *presented by Dr. H. G. F. Spurrell.*

One hundred and sixty-nine specimens of Crustacea from the Peruvian Coast, collected by Dr. H. O. Forbes; purchased.

Australasia and Pacific Ocean.

Twelve specimens of Crustacea, including the type of a new species, from Torres Straits; *presented by Dr. J. R. Tosh.*

Nine River-crabs from New Guinea; *presented by the Subscribers to the Wollaston Expedition to Dutch New Guinea.*

Nineteen specimens of Crayfishes from Western Australia; received in exchange from the Western Australian Museum, Perth, W.A.

Four specimens of Phyllopoda from Australia; *presented by Fred Whitteron, Esq.*

Twenty specimens of a Brine-shrimp from Australia; *presented by A. W. Sheppard, Esq.*

Ten Crustacea from Henderson Island; *presented by D. R. Tait, Esq., and J. R. Jamieson, Esq.*

PYCNOGONIDA.

The Norman collection of Pycnogonida, numbering about three hundred and twenty-five specimens, was received in 1911, with the Crustacea, but has not been previously reported.

Echinoderma.

As the Assistant in charge worked out, some years since, the Echinoderm fauna of South Africa, it has been of great interest to obtain from the Natal Museum a collection from German East Africa. Though this collection includes nothing new, interesting forms such as *Astropyga radiata, Echinometra oblonga, Tripneustes gratilla, Echinoneus cyclostomus,* may be mentioned.

The *presentation, by Captain A. Morrell,* of a *Pentacrinus* from off St. Thomas, W.I., deserves to be recorded, as well as four specimens of the little-known *Porocidaris elegans* from deep water off Sydney; *presented by Prof. W. A. Haswell, F.R.S.*

Worms.

Among the Earthworms, attention should be called to the co-types of *Beddardiella dalzieli, presented by Dr. J. H. Ashworth;* to *Dichogaster itoliensis,* from Uganda, *presented by Sir F. J. Jackson, K.C.M.G.;* to the types of *Pheretima hendersoniana,* described by Dr. Cognetti di Martiis, from Henderson Island, *presented by the late Sir John Murray, K.C.B.;* and of *Parapheretima outakwana,* collected in Dutch New Guinea, shortly to be described by Dr. di Martiis.

Of the Leeches, mention should be made of *Helodrilus lacustris* and *Criodrilus lacuum,* from the edge of Lake Tiberias; *presented by Dr. N. Annandale. Dina quadristriata* was obtained by purchase from Sardinia; *Hæmopis sanguisuga* was taken from the mouth of a buffalo; and *Whitmannia acranatula,* from Central China, was *presented by Dr. Maxwell.*

The widely-spread *Placocephalus kewensis* has been obtained from the Azores.

Two sets of Rotifers, containing respectively 24 and 21 slides, were purchased during the year from Mr. C. F. Rousselet.

Brachiopoda.

Only one specimen was added to the collection during the year, viz., an example of the rare form *Macandrevia diamentina,,* obtained in Coates Land, Antarctica; *presented by J. W. Jackson, Esq.*

Polyzoa.

The following fresh-water polyzoa, rare or from interesting localities, were added viz.:—*Pottsiella erecta,* from Pennsylvania, *presented by C. F. Rousselet, Esq.; Victorella continentalis* Braem, from Lake Issyk Kul, Central Asia, *presented by Dr. D. Pedaschenko; Fredericella sultana,* var. *jordanica,* from Lake Tiberias, *presented by Dr. N. Annandale.*

Anthozoa.

The additions to this group are very few, but those from Suez, purchased from Dr. Bannwarth, are remarkable for their state of preservation, which is far better than that of most Anthozoa. Among them may be mentioned *Alveopora dædalea*, *Sclerophyllia margariticola*, *Xenia umbellata*, and *Paractis erythrosoma*.

Porifera.

The following specimens may be specially mentioned:—Ten specimens of fresh-water Sponges from the River Volga; *presented by Dr. A. Behning, Director of the Biological Station, Saratow, Volga.*

Six specimens of fresh-water Sponges, including three co-types, from Lake Tiberias and the channel of the Jordan, described by the donor; collected and *presented by Dr. N. Annandale.*

Summary of the Acquisitions in the Department of Zoology during 1913.

	Donations.	Purchases.	Exchanges.	Totals.
Mammals — Anthropology	11	23	—	34
Mammals — Cetacea	16	2	—	18
Mammals — Other Mammals; Skins	1,773	150	106	2,029
Mammals — " " ; Skeletons	48	—	—	48
Aves — Skins	5,181	2,206	186	7,573
Aves — Eggs and Nests	965	204	—	1,169
Aves — Skeletons	12	1	—	13
Domesticated Animals	33	—	—	33
Reptilia	917	137	83	1,137
Batrachia	319	85	—	404
Pisces	1,681	101	87	1,869
Tunicata	16	16	—	32
Hemichordata and Phoronidea	5	—	—	5
Mollusca — Sikes Collection	3,200	—	—	8,697
Mollusca — Other sources	4,009	1,488	—	
Myriopoda — Koch Collection	—	3,733	—	3,783
Myriopoda — Other sources	21	34	—	
Prototracheata	3	—	—	3
Arachnida — Koch Collection	—	8,659	—	10,514
Arachnida — Other sources	1,324	480	51	
Crustacea — Koch Collection	—	1,300	—	2,935
Crustacea — Scott Collection	515	—	—	
Crustacea — Other sources	841	260	19	
Pycnogonida, Norman Collection	—	325	—	325
Echinoderma	5	2	27	34
Worms	41	56	—	97
Brachiopoda	1	—	—	1
Polyzoa	42	10	—	52
Anthozoa	6	27	—	33
Hydrozoa	13	3	—	16
Porifera	42	3	—	45
Protozoa	14	1	—	15
Totals	21,054	19,306	539	40,919

The following Donors presented specimens to the Department of Zoology during the year 1913:—

H.M. The King

Aders, Dr. W. M.
Alcock, Col. A., C.I.E., F.R.S.
Anderson, Lieut.-Col., I. H. Abbot
Annandale, Dr. N.
Appleton, Col. H.
Armitage, Capt. C. H.
Arnold, J. P.
Ashworth, Dr. J. H.
Assheton, R., F.R.S.
Atkinson, W. H.
Aubin, Capt. A. C.

Baker, E. C. Stuart
Bale, W. M.
Balston, R. J.
Bannerman, D. A.
Barclay, Dr. A. H.
Barrett-Hamilton, the late Major G. E. H.
Barton, Miss M. L.
Bedford, His Grace the Duke of, K.G., F.R.S.
Bell, A.
Bell, Miss C. A.
Beste, F. V.
Blackburne-Maze, C. I.
Blaine, G.
Board of Trade
Bombay Natural History Society
Borman, Major S. P.
Bourne, Prof. G. C., F.R.S.
Bouvier, Prof. E. L.
Bowskill, Rev. J. S.
Bridgeman, F. G.
Bright, Mrs. W. R.
Brincker, Miss
British Antarctic ("Terra Nova") Expedition, 1910
British Ornithologists' Union Expedition to Dutch New Guinea, Subscribers to
Broom, Dr. R.
Brown, W. R.
Bruce, Surgeon-General Sir David, C.B., F.R.S.
Bruce, Major G. E.
Burnett, C. S.
Burnup, N. C.
Burr, Malcolm
Butcher, A. J. B.
Buxton, P. A.

Cairo, Public Works Department
Calcutta, Indian Museum
Calman, Dr. W. T.
Cambridge, University Museum of Zoology
Cape Town, South African Museum
Can, Dr. D. W.
Chapman, S. C.
Chaves, Col.
Chetwynd, G.
Chick, W. H.
Chirnside, Miss A.
Chubb, E. C.
Clark, R. C. Graham
Clark, R. F.
Clark, R. S.
Clarke, L. C. G.
Clarke, Col. R. Stephenson
Cockburn, Major W. A. C.
Cockerell, Prof. T. D. A.
Coles, R. J.
Combridge, A. J.
Cook, J. P.
Cooke, F.
Cooper, J. E.
Cooper, W. Omer
Cosens, G. P.
Crisford, G. N.
Crocombe, W. J.
Cruden, F.
Cuninghame, R. J.
Cunnington, Dr. W. A.

Dall, Dr. W. H.
Dalziel, Dr. J. M.
Davey, W. J.
Davies, G. E.
Davison, J. F.
Dayrell, Elphinstone
de Winton, W. E.

Dean, J. D.
Dehaut, E. G.
Denbigh, Earl of, C.V.O.
Digby, Basset
Distant, W. L.
Dobell, C.
Dobson, Mrs. F.
Doddington, G. W.
Dodds, E. Hugh
Dodsworth, P. T. L.
Doncaster, Dr. L.
Donisthorpe, H. St. J. K.
Dracopoli, I. N.
Drège, J. L.
Duboscq, Prof.
Dunn, Matthias, & Sons
Dunne, J. W.
Durban Museum

East Africa & Uganda Natural History Society
Egyptian Government
Ellice, Capt. E.
Elliot, Capt. C.

Faber, S. E.
Feilden, Col. H. W., C.B.
Fermor, Herbert F.
Fisher, Capt.
Fletcher, T. Bainbrigge
Flower, Capt. S. S.
Forbes, Dr. H. O.
Forester, F.
Foster, F. W.
Fox, J. C.
Fryer, J. C. F.
Fuentes, Prof. F.

Gabriel, C. J.
Gaillard, Dr. C.
Gairdner, K. G.
Galloway, Miss E. M.
Gardiner, Prof. J. Stanley, F.R.S.
Gaukel, H.
Genoa, Doria Museum
Gerlach, G.
Gibson, E.
Gimlette, Dr. J. D.
Godfrey, Rev. R.
Godman, F. D., F.R.S.
Goodall, T. B.
Goodfellow, W.
Gowdey, C. C.
Grabham, G. W.
Graham, J.
Graham, Sir Richard
Grahamstown, Albany Museum
Grant, C. H. B.
Graves, Dr. Montague
Gude, G. K.
Guitel, Prof. F.
Gunter, Major C. P.
Günther, the late Dr. A., F.R.S.

Haldane, the late R. C.
Hamilton, C. A.
Hamilton, Major J. Stevenson
Hanitsch, Dr. R.
Harger, R. L.
Harington, Major H. H.
Harley, G.
Harmer, Dr. S. F.
Hartert, Dr. E.
Hartley, A.
Harvey, Henry
Haswell, Prof. W. A., F.R.S.
Hawker, H.
Hedley, C.
Henderson, Dr. J. R.
Herdman, Prof. W. A., F.R.S.
Herlofson, Carl F.
Hewitt, J.
Hickson, Prof. S. J., F.R.S.
Hill, A. W.
Hill, Prof. J. P., F.R.S.
Hirst, A. S.
Hirst, Dr. L. F.
Hoffmann, E.
Hopwood, C.
Howard, H. C.
Howard, L. C.
Howell, E. B.
Hungarian Minister of Agriculture
Hurrell, H. E.
Hurst, G. H. R.
Hutton, J. A.
Hyatt, M. P.

Imperial Bureau of Entomology
Ingram, Collingwood

Jack, Major
Jackson, Sir F.J., C.B., K.C.M.G.
Jackson, J. W.
Jamieson, J. R.
Jobson, J. H.
Johnston, Mrs. E. J.
Jones, Mrs. Spencer
Jourdain, Rev. F. C. R.
Jukes-Browne, A. J., F.R.S.

Kaznakoff, Col. A. N.
Keen, Rev. J. H.
Kelsall, Major H.
Kennedy, J. N.
King, H. H.
Kingsmill, Miss
Kinnear, N. B.
Kirkpatrick, R.
Knox, Major S. G., C.I.E.
Knox, S. G. I. E.
Krüger, B.

Lanz, L. A.
La Touche, J. D.
Lawley, Hon. Sir Alfred, G.C.I.E.
Léger, Prof. L.
Leney, T. J.
Leonard, J. H.
Lewin, Dr. L.
Lister Institute of Preventive Medicine
Littledale, St. George
Llewelyn, Capt. C. Venables
Loder, Sir E. G., Bart.
Longstaff, Mrs. J.
Lönnberg, Prof. E.
Lowe, W. P.
Luxemburg Museum
Lydekker, R., F.R.S.
Lyell, J. C.
Lyle, Th. H.

McCalmont, Dermot
McConnell, the late F. V.
Manning, Col.
Marré, E.
Marston, R. B.
Martin, H. A.
Massey, Dr. A. Yale
Matthews, A.
Maxwell, Dr. J. P.
Mayor, Major E. W.
Meade-Waldo, E. G. B.
Meek, Prof. A.
Mellor, J. E. M.
Merkwitz, Dr.
Miers, Miss
Moggeridge, W.
Montague, P. D.
Monterosato, il Marchese di
Morrell, Capt. A.
Muir, G. J.
Mülleger, S.
Munt, H.
Murray, the late Sir John, K.C.B., F.R.S.

Neave, S. A.
Nuttall, Prof. G. H. F., F.R.S.

Ogilvie-Grant, W. R.

Pallis, Miss M.
Pam, A.
Panama Telegraph Company
Pará, Goeldi Museum
Park, Mungo
Parkes, F. H. F.
Pearce, F. H.
Pearson, E. H.
Pedaschenko, Dr. D.
Peile, Major A.
Penton, Col. R. H.
Péringuey, Dr. L.
Philpott, Miss
Pietermaritzburg Museum
Ponsonby, J. H.
Port of London Authority
Potts, F. A.
Preston, F. H.
Preston, H. B.
Price, Addis
Pycraft, W. P.

Quelch, J. J.

Rachow, A.
Ramsden, C. T.
Rendall, Dr. Percy
Reuter, Dr. F.
Roberts, D. Gwyn
Roberts, F. Russell

Roby, Mrs. M.
Rogers, C. G.
Roper, R. E.
Rothschild, Hon. N. C.
Rothschild, Hon. Mrs. N. C.
Rothschild, Hon. Walter, F.R.S.
Rousselet, C. F.
Royal Society and British Association, Joint Committee of, for the Exploration of the Sandwich Islands

Schröder, B.
Scott, Andrew
Scott, Dr. Thomas
Scottish Oceanographical Laboratory
Serena, Miss Marie
Sernov, Dr. S.
Seth-Smith, L. M.
Shanghai Museum
Sharpe, Sir Alfred, K.C.M.G.
Shepherd, Col. C. W.
Sheppard, A. W.
Sikes, F. H.
Smith, R. Bosworth
Smith, Stuart
Someren, Dr. R. van
Southoff, G. de
Spurrell, Dr. H. G. F.
Stanley, W. B.
Stephens, Miss J.
Stevens, H.
Stiles, Dr. C. W.
Stockholm, Riksmuseum
Stookes & Co., Messrs. J. W.
Stresemann, E.
Sutton, E. G.
Sykes, Major P. M.

Tait, D. R.
Talbot, P. A.
Tanganyika Exploration Committee
Telegraph Company, Eastern and Associated
Telegraph Construction and Maintenance Company
Tervueren, Congo Museum
Thoburn, Capt. H. H.
Thomas, N. W.
Thomas, O., F.R.S.
Thompson, M.
Thompson, Prof. D'Arcy W., C.B.
Thomason, R. M.
Thorburn, A.
Tomlin, J. R. le B.
Tosh, Dr. J. R.
Trollope, E.
Trollope, W.
Turner, Dr. F. M.

Vallentin, R.
Varian, H. F.
Venning, Capt. F. E. W.
Verco, Dr. J. C.
Vipan, Captain

Waddington, H. J.
Walker, A. O.
Wall, Major F.
Ward, Ltd., Rowland
Ward Bequest, Trustees of the Rowland
Washington, U.S. National Museum
Waterfield, Dr.
Watson, Hugh
Webster, Mrs. E. T.
Wertheimstein, Fräulein Sarolta von
Whitehead, Capt. C. H. T.
Whitteron, Fred
Wilmer, Miss M.
Wilmer, Col. W.
Wilson, Captain
Wilson, H.
Winton, W. E. de
Wodehouse, Lord
Wolffsohn, J. A.
Wollaston Expedition to Dutch New Guinea, Subscribers to
Wolterstorff, Dr. W.
Wood, Col. C. B.
Woodward, B. B.
Wynne, Lieut. O. E.

Zimmerman, Major
Zoological Society of London

VI.—*Economic Zoology.*

I. Mammalia.

The question of the protection of Whales has received much attention during the year. The rate at which these animals are being destroyed in Subantarctic waters gives rise to serious anxiety; and the Department has taken various measures with the view of calling attention to the subject and, it is hoped, of assisting in the preservation of these animals.

The Expedition undertaken by the late Major G. E. H. Barrett-Hamilton to South Georgia was one of the results of the action thus taken. It was sent out in the autumn of 1913 by the Colonial Office, with the view of obtaining accurate information with regard to the species of whales and their mode of life and migrations. Major Barrett-Hamilton, who was accompanied by P. Stammwitz, Taxidermist to the Department, most unfortunately died on January 17, 1914; and many of the results which it was hoped to obtain will thus not be available. He had left a number of notes on his observations; and an attempt will be made to work these up as far as possible.

A Memorandum on the serious destruction of Whales in the past, principally in Northern waters, was prepared by the Keeper for the use of an Interdepartmental Committee which is inquiring into this subject; and the Keeper also gave evidence before the Committee.

II. Aves.

The Department has assisted the Colonial Office by supplying information with regard to the species of Birds requiring protection in various British Colonies and Protectorates.

III. Pisces.

The greater part of the work done by the Assistant in charge of the collection of Fishes had a direct or indirect bearing on economic problems.

As examples may be mentioned that inquiries have been answered from, and specimens determined for, the Board of Agriculture and Fisheries, the Fisheries Assistant of the Marine Biological Laboratory, Plymouth, the Imperial Institute, &c.

Two Companies engaged in the fishing industry were given information as to the fishes of West Africa likely to prove of economic value.

The monograph of the Cyprinodont Fishes of the subfamily Pœciliinæ was undertaken largely because several of the species are known to eat mosquito-larvæ and thus help to check malarial fever.

The revision of the Hag-fishes (*Myxine*) may be mentioned, as a knowledge of the species and their distribution is important on account of their destructiveness to food-fishes.

IV. Mollusca.

Advice and assistance has been given on the following questions:—

Destruction of woodwork of piers and jetties by *Teredo* and other boring Mollusca in Burma and in the Red Sea.

Methods of controlling and exterminating the Grey Slug (Maryland Agricultural Station).

Growth of *Anomia* upon submarine cables.

V. Arachnida.

1. Gamasid mite (*Leiognathus sp.*) attacking a woman in the Deccan, India; the specimen sent for identification was badly mounted and the species could not be determined.

2. Mite (*Tarsonemus*) causing considerable damage to ferns in London Nursery-gardens; short report sent to the Board of Agriculture.

3. Mite (*Pediculoides ventricosus*) attacking dock labourers at Greenwich, and preventing the unloading of cargoes of Egyptian cotton-seed. Information sent to the Board of Agriculture, in reply to a letter.

4. Tyroglyphid mites (*Glycyphagus domesticus* and *Tyroglyphus sp.*) infecting houses.

VI. Crustacea.

Advice has been asked for, on matters relating to Crustacea, by members of the scientific staffs of the Board of Agriculture and Fisheries, the Fishery Board for Scotland, the Department of Agriculture and Technical Instruction for Ireland (Fisheries Branch), and the Marine Biological Association. Inquiries by members of the public on the following, among other points, have been answered:—

Occurrence of Well-shrimps in a water-supply.

Destruction of submarine timber by boring Crustacea at Ilfracombe and at Rangoon.

VII. Polyzoa.

A paper calling attention to the serious troubles caused by the growth of Polyzoa in waterworks has been published by the Keeper; and various enquiries on this subject have been answered.

VIII. Other Invertebrates.

Injuries to submarine cables, apparently due to Polychæt worms, have been investigated; and information has been given to Telegraph Companies.

A number of determinations have been made of specimens found injuring plants in the Royal Gardens, Kew.

VII.—*Students and Visitors.*

The number of visits paid to the Zoological Department during the year 1913 by Students and other persons requiring assistance or information amounted to 9,982. This number includes the visits paid by Students holding tickets entitling them to do special work in the Exhibition Galleries.

In the 10 previous years, during which the present Department of Entomology was included in the Department of Zoology, the numbers were:—

12,564	in the year	1912.
12,175	„	1911.
12,443	„	1910.
11,461	„	1909.
10,220	„	1908.
11,043	„	1907.
10,813	„	1906.
11,811	„	1905.
11,824	„	1904.
11,627	„	1903.

Sidney F. Harmer.

Department of Entomology.

The Department of Entomology was not established as a Department distinct from Zoology until the 1st of April 1913, but the particulars relating to it which follow are to be understood as extending over the whole of that year.

I.—*Arrangement and Conservation.*

Insect Gallery.—Except for the addition of a number of representative species to illustrate the order Orthoptera, which have been placed in one of the side cabinets, there is no change to record in the exhibited series in the public gallery. The ceiling of the gallery was re-painted during the year, necessitating the temporary removal of some of the wall frames and specimens. Leakage by evaporation from some of the glass jars had been noticed, and the jars were re-filled with spirit.

Study Series.—In the Coleoptera, the sub-families Opatrinæ, Pedininæ, Tenebrioninæ (in part), Cyphalæinæ, and Cnodaloninæ of the Tenebrionidæ have been re-arranged and all accessions incorporated. The following families and sub-families have been worked out by specialists to whom they were sent and on their return have been re incorporated in the collection together with all accessions; namely, the Anthicidæ by Herr von Krekich Strassoldo, the Australian Amarygminæ, Tenebrioninæ and Cyphalæinæ by Mr. H. J. Carter, and the East African species of *Zophosis* by M. Chatanay. These include many types of new species and varieties. The Palæactic Lagriidæ are being worked out by Herr Borchmann. Many sub-families, including the Eurychorinæ, Asidinæ, and Nycteliinæ of the Tenebrionidæ, have been revised and transferred to the new pattern cabinets. A synoptic revision of the Pyrochroidæ has been prepared and considerable progress made with a similar revision of the genus *Gonocephalum*, for which purpose special visits have been undertaken to the Paris Museum and to the collections of M. Maurice Pic. Among the Staphylinidæ, Dr. M. Cameron has worked out the genus *Atheta* which has been re-incorporated, together with accessions. The re-arrangement of the Lucanidæ has been completed, and that of Dermestidæ begun and completed, many new species of the latter family having been incidentally described. The whole of the Australian Cryptorhynchine weevils, sent to Mr. Lea of the South Australian Museum, have been named by him and on their return have been incorporated and arranged. A collection of Brazilian Lamellicorns made by the Stanford University Expedition has been worked out and several new species described, the types of which have been placed in the Museum collection. The Lamellicornia in the collections made by Mr. A. F. R. Wollaston on his expedition to Dutch New Guinea have also been worked out. Lieut.-Colonel F. Winn Sampson has continued voluntarily to devote a

considerable part of his time to naming and arranging the Scolytidæ.

In the Hymenoptera, the re-arrangement of the Apidæ has been continued, the sub-family Nomadinæ being completed and considerable progress made with the sub-family Anthophorinæ. A number of accessions has also been incorporated in other families, and in the Vespidæ a partial re-arrangement has been effected. The collection has continued to benefit very much by the help of specialists, loans of specimens having been sent to Dr. A. Mocsáry (Chrysididæ), and Prof. T. D. A. Cockerell (Apidæ), who have returned them, to Dr. Franklin (Apidæ), and Herr Bischoff (Mutillidæ), who are still engaged on their respective consignments. Mr. Claude Morley has continued the work of determining, re-arranging and incorporating the Parasitic Hymenoptera (Ichneumonidæ), special attention having been given to various tribes in the sub-families Pimplinæ, Tryphoninæ, and Cryptinæ. Part II. of the "Revision of the Ichneumonidæ" was published during the year.

In the Neuroptera, a considerable amount of material of the sub-family Calopteryginæ (Odonata) has been studied by Dr. Ris. of Rheinau, Switzerland. Señor R. P. Longinos Navás, S.J., of Saragossa, has continued to work out the Chrysopidæ and Mantispidæ of the Neuroptera Planipennia, and has described a great number of new genera and species from the Museum collection. Among the accessions, a considerable number of valuable British Phryganeidæ, Ephemeridæ, and Sialidæ have been presented by Mr. Martin E. Moseley and the specimens prepared for exhibition. A study of various diagnostic characters used in the classification of the Phryganeidæ has been made.

The collection of the Anoplura and Mallophaga continues to grow, large numbers of specimens having been presented by the Hon. N. C. Rothschild. The whole of the types have been transferred from cards to slides and mounted in Canada balsam. Several new species have been described, the specimens in the slide cabinet re-arranged and an index commenced. Some time has also been devoted to the study of Denny's types.

The large collection of Rhynchota made in the Seychelle Islands by the Percy Sladen Trust Expedition has been partly worked out, the whole of the Heteroptera having been incorporated. A considerable number of new species and genera of Cicadidæ from Indo-China, New Caledonia, British India, Australia, and Tropical Africa has been received. Another instalment of the Distant collection has been purchased. A large number of Coccidæ on slides, determined by Prof. Robt. Newstead, F.R.S., and presented by the Imperial Bureau of Entomology, are being arranged in the further cabinet accommodation provided.

In the Thysanoptera, many valuable and important new species and genera have been described by Mr. R. S. Bagnall and incorporated on their return.

In the Lepidoptera, the sub-families Heliconiinæ, Melanitinæ (Elymninæ), Riodininæ (in part), and the Acræinæ have been re-arranged and all the accessions incorporated as far as cabinet space would allow. In the Satyridæ all the accessions of the Amathusiinæ and, except for the Godman and Salvin collection, of the Morphinæ and Brassolinæ have been incorporated. The genus *Papilio* has been entirely re-arranged on a geographical basis and is now much more readily accessible. A large number of accessions have been incorporated in all families such as the Neave collection, the Godfrey collection, and the Elwes collection (Formosa). Mr. South has continued the arrangement of the Hesperiidæ, and the incorporation of the Hewitson, Godman-Salvin, and other collections and accessions.

During the year, Volumes XII. and XIII. of the Catalogue of Moths have been published and the re-arrangement of the Syntomidæ has been commenced with a view to the publication of a supplementary volume on this family and the Arctid sub-families Nolinæ and Lithosianæ which has been sanctioned by the Trustees. The re-arrangement of the Noctuid sub-family Catocalinæ has been completed, also the sub-families Mominæ and Phytometrinæ. In the Geometridæ the re-arrangement of Geometrinæ and Œnochrominæ has been completed, whilst in the Pyralidæ the Chrysauginæ and Epipaschianæ have been arranged.

In the Tineina the revision of the Olethreutidæ, Tortricidæ, Phaloniadæ, Carposinidæ, Hemerophilidæ, Coleophoridæ, Heliodinidæ, Hyponomeutidæ and Tineidæ has been continued in connection with work on the Neotropical genera of these families ; many types have been identified and labelled, progress has been made in the re-arrangement, and the collection of slides has been augmented.

In the Diptera, the determination and working out of the Tabanidæ of Tropical Africa (presented chiefly by the Imperial Bureau of Entomology) was continued, and a considerable amount of recently acquired material from various localities, belonging to this as well as other families, has been incorporated. A number of small collections from various localities (Gold Coast, Philippine Islands, Natal, South Queensland, Falkland Islands), have been worked out and incorporated. Considerable additions have been made to the collection of British Diptera especially in the family Mycetophilidæ. The Mycetophilidæ, British and Exotic, have been arranged and expanded and some notes published thereon. Some work has also been done upon Oriental Culicidæ and the results of the study of the Museum material published.

Imperial Bureau of Entomology.

The work of the Imperial Bureau of Entomology (formerly the Entomological Research Committee of the Colonial Office) has continued to be carried on to a large extent within the

Museum, and with considerable benefit to the Entomological Department, notwithstanding the inconvenience caused by the lack of sufficient accommodation for all the workers engaged.

The number of specimens received from the Imperial Bureau in the course of the year amounted to 64,736, or nearly half of the total number acquired from all sources during the year. A considerable proportion of the material had been named by the staff of the Bureau, or by specialists outside, before presentation to the Museum, and included several types and other specimens of more than ordinary value, in addition to a large number belonging to species of economic importance.

II.—*Duplicates and Exchanges.*

(a) *Duplicates.*

Duplicates have been presented to the following museums and scientific institutions :—

Albert Institute and Victoria Galleries, Dundee ; American Museum of Natural History, New York ; Bristol Museum and Art Gallery ; State Microscopical Society of Illinois, Chicago. Duplicates have also been sent to the following gentlemen, who have assisted in naming specimens :—M. Henri Boileau, Dr. Malcolm Cameron, Mr. H. Campion, Mr. H. J. Carter, M. J. Chatanay, Mr. F. H. Gravely, M. Ant. Grouvelle, Dr. Walther Horn, M. le Capitaine Ch. Kerremans, Mr. A. M. Lea, Mr. G. Lewis, Dr. A. Mocsáry, Señor R. P. Longinos Navás, S.J., M. H. d'Orbigny, Dr. F. Ris, Dr. Edoardo Zavattari.

(b) *Exchanges.*

Exchanges have been made with the following institutions and individuals :—

The Hungarian National Museum, Budapest ; Museum d'Histoire Naturelle, Paris ; and with Mr. G. Arnold (Rhodesia Museum), M. André Avinoff, Professor C. F. Baker, Mr. Nathan Banks, Mr. J. R. de la Torre Bueno, Mr. H. St. J. K. Donisthorpe, Herr H. Fruhstorfer, Herr H. Gebien, Professor G. Hauser, Colonel S. W. Lincoln, Mr. W. M. Mann, Mr. F. W. Nunenmacher, M. René Oberthur, M. A. d'Orchymont, Baron Gustav von Plessen, Dr. B. Poppius.

III.—*Departmental Library.*

A type-written list of the books and separata contained in the Walsingham Library (presented by Lord Walsingham along with his collection of Micro-lepidoptera) was prepared during the year.

As no change has been made in the general arrangements with regard to the Library which were in force before Entomology became a distinct Department, other matters relating to the Entomological Library may be looked for, under the above heading, in the statement by the Keeper of Zoology.

IV.—*Publications.*

In addition to the official publications issued by the Trustees (*see* pp. 128–9), the following papers and reports have been prepared in connection with different branches of the collection, and have been published for the most part in scientific journals:—

By G. J. Arrow.

"Synopsis of the Melolonthid Genus *Ancistrosoma* with descriptions of new species and an allied new Genus." Ann. Mag. Nat. Hist. (8), xii., p. 425.

"Notes on the Lamellicorn Coleoptera of Japan and descriptions of a few new Species." *Ib.*, p. 394.

"Notes on the Lamellicorn Genus *Popillia* and descriptions of some new Oriental Species in the British Museum." *Ib.*, p. 38.

"Some new Species of Lamellicorn Beetles from Brazil." *Ib.* (8), xi., p. 456.

By K. G. Blair.

"On the Systematic Position of the Coleopterous Genus *Lemodes* (Heteromera) with notes on some allied Genera." *Ib.*, p. 207.

"A new Species of *Rhysodina* (Coleoptera Heteromera)." *Ib.*, p. 303.

"Some new Species of Indian Tenebrionidæ." *Ib.*, (8), xii., p. 56.

"*Tribolium castaneum*, Herbst. = *ferrugineum*, auct. (*nec.* Fab.)." Ent. Mo. Mag., (2), xxiv., p. 222.

By C. J. Gahan.

"Mimicry in Coleoptera." Proc. South London Ent. and Nat. Hist. Soc., 1913, p. 28.

By Sir G. F. Hampson, Bart.

"New Pyralidæ, Sub-family Pyraustinæ." Ann. Mag. Nat. Hist. (8), x., p. 322. *Ib.*, p. 509. *Ib.*, xii., p. 1. *Ib.*, p. 299.

"New Genera and Species of Noctuidæ." *Ib.*, p. 580.

By J. Hartley Durrant.

"Ernst Hartert's Expedition to the Central Western Sahara, Micro-lepidoptera." Novitates Zoologicæ, xx., p. 142.

"Descriptions of two new Tineina (Lepidoptera), from the Lagos District." Trans. Ent. Soc. Lond., 1913, p. 513–4.

(Notes on a series of specimens of British Lepidoptera of great historical interest, presented to the British Museum

(Natural History) by Mrs. W. C. Boyd.) Proc. Ent. Soc. Lond., 1913, p. lxxi–iii.

By J. Hartley Durrant and Lieut.-Col. W. W. C. Beveridge.

"A Preliminary Report on the Temperature reached in Army Biscuits during baking, especially with reference to the destruction of the imported Flour-Moth (*Ephestia Kuhniella*, Zeller)." Journ. Roy. Army Med. Corps, xx., p. 615.

By Lord Walsingham.

The publication of the following series of descriptions has been continued:—*

"Biologia Centrali-Americana. Zoologia. Insecta. Lepidoptera. Heterocera (continued). Tineina." Vol. iv., p. 169, pl. 6 (pp. 225–327, pl. 7–10—in the press).

By G. Meade-Waldo.

"New Species of *Diploptera* in the collection of the British Museum, pt. iv." Ann. Mag. Nat. Hist. (8), xi., p. 44.

"Notes on the Apidæ (Hymenoptera) in the Collection of the British Museum, with descriptions of new Species. Pt. ii., Nomadinæ." *Ib.*, p. 92.

"Four new species of Apidæ (Hymenoptera), with notes on other Species." *Ib.*, p. 491.

By E. E. Austen.

"Notes on the Synonymy contained in Dr. Bequaert's recently published paper on Tabanidæ collected in Belgian Congo." Ann. Mag. Nat. Hist. (8), xi., p. 560.

"Diptera from the Falkland Islands, with descriptions of a new Genus and two new Species." *Ib.*, xii, p. 498.

"The present position of the Problem of Big Game, Tsetse Flies, and Sleeping Sickness." Journ. Soc. for the Preservation of the Wild Fauna of the Empire, vi., p. 57.

"On Diptera collected in the Western Sahara by Dr. Ernst Hartert, with descriptions of new Species." Pt. I. Bombyliidæ." Novitates Zoologicæ, xx., p. 460.

By F. W. Edwards.

"Further Notes on African Culicidæ." Bull. Ent. Res., iv., p. 47.

"New Synonymy in Oriental Culicidæ." *Ib.*, p. 221.

* "Prepared for publication by Mr. Durrant, by permission of the Trustees.

"The Identity of *Culex geniculatus*, Oliv." Ent. Mo. Mag. (2), xxiv., p. 107.

"Sexual Dimorphism in a Species of *Sciara*." *Ib.*, p. 209.

"Some Mycetophilid Synonymy." Ann. Mag. Nat. Hist. (8), xii., p. 55.

"New and little known Diptera Nematocera from Ceylon." *Ib.*, p. 199.

"Culicidæ and Tipulidæ from the Lake of Tiberias and Damascus." Journ. Proc. Asiatic Soc., Bengal, ix., p. 47.

"Notes on British Mycetophilidæ." Trans. Ent. Soc. Lond., 1913, p. 334.

By Bruce F. Cummings.

"On some Points in the Anatomy of the Mouth parts of the Mallophaga." Proc. Zool. Soc., 1913, p. 128.

"On some Nondescript Anoplura and Mallophaga." Bull. Ent. Res., iv., p. 35.

"Apropos of the Maxillæ in the Genus *Dipseudopsis*, Walk." Ann. Mag. Nat. Hist. (8), xi., p. 308.

"Note on the Crop in the Mallophaga and the arrangement and systematic value of the Crop Teeth." *Ib.*, xii., p. 266.

By Prof. Robt. Newstead, F.R.S., and Bruce F. Cummings.

"On a remarkable Psyllid Gall from Palestine." Ann. Mag. Nat. Hist. (8), xi., p. 306.

By W. L. Distant.

"Percy Sladen Trust Expedition, Seyschelle Islands, Rhynchota. Pt. I." Trans. Linn. Soc., xvi. Pt. II.

"Expedition to the Central Western Sahara by Ernst Hartert. Rhynchota–Homoptera." Novitates Zoologicæ, xx., p. 465.

"On a collection of Javanese and Sumatran Cicadidæ.' Tijdschr. voor Entomologie, lvi., p. 38.

"Synonymical Notes on some recently described Australian Cicadidæ." Proc. Linn. Soc., N. S. Wales, xxxvii., p. 600.

"A Bug attacking *Sesamum indicum*." Bull. Ent. Res., iv., p. 143.

"Description of a Parasitic Lepipopterous larva on a South African Fulgorid insect (*Rhinortha guttata*)." Zoologist, 1913, p. 289.

"On a small collection of Rhynchota made at Henderson's Island." Ann. Mag. Nat. Hist. (8), xi., p. 554.

"Descriptions of new Species belonging to the Homopterous Family Cicadidæ." *Ib.*, xii., p. 76.

"Contributions to a Knowledge of Oriental Rhynchota." *Ib.*, p. 283.

"Undescribed Species of Cicadidæ." *Ib.*, p. 485.

"On some recently received Rhynchota." *Ib.*, p. 556.

V.—*Acquisitions.*

The number of specimens added to the Insect collection during the year is 140,535, made up as shown in the following table:—

——	Donations.	Exchanges.	Purchases.	Totals.
Coleoptera - - -	42,797	596	11,626	55,019
Lepidoptera - - -	27,723	861	4,752	33,336
Hymenoptera - - -	17,780	229	1,929	19,938
Diptera - - - -	7,370	113	3	7,486
Rhynchota - - -	12,988	95	3,352	16,435
Orthoptera - - -	3,692	—	24	3,716
Neuroptera - - -	1,907	104	—	2,011
Mallophaga, Anoplura, and other orders.	2,064	—	51	2,115
Nests, Eggs, Larvæ, Pupæ, &c.	471	—	8	479
Totals - - -	116,792	1,998	21,745	140,535

The most important of these accessions are the following:—

From various localities—

Eleven thousand two hundred and sixty Lepidoptera, chiefly American, and containing numerous types; *presented by F. Du Cane Godman, Esq., D.C.L., F.R.S.*

Four hundred and fifty-two Lepidoptera, including about 190 types; *presented by the Hon. Walter Rothschild.*

Nine thousand four hundred Coleoptera; *presented by Dr. Harold Swale.*

One thousand three hundred and two Mallophaga and Anoplura; *presented by the Hon. N. C. Rothschild.*

A third instalment of the Distant Collection, containing 3,322 Rhynchota and 1,678 Hymenoptera.

Europe.

One thousand three hundred and ninety British Diptera; *presented by Lieut.-Col. J. W. Yerbury.*

One thousand three hundred and fifty British Diptera; *presented by the Hon. N. C. Rothschild.*

Eight hundred and fifty-five Lepidoptera from Hungary; *presented by the Hon. N. C. Rothschild.*

Four hundred and three Insects of various Orders from Germany; *presented by S. G. E. J. Knox, Esq.*

Two hundred and fifty Lepidoptera from France; *presented by Lord Walsingham.*

Fifty-five historical specimens of British Lepidoptera; *presented by Mrs. W. C. Boyd.*

Asia.

The fourth and final instalment of the George Lewis collection, containing 11,000 Coleoptera from Japan.

Five hundred and seventy-five Hymenoptera from Java; *presented by Claude Morley, Esq.*

Three hundred and twenty Lepidoptera from Pekin; *presented by the Rev. F. S. Hughes.*

Two hundred and forty-five Rhynchota from Ceram, etc.; *presented by E. Stresemann, Esq.*

One hundred and seventy-five Lepidoptera from Siam; *presented by E. J. Godfrey, Esq.*

Three thousand one hundred and nineteen Lepidoptera from Formosa.

Africa.

Sixty-four thousand seven hundred and thirty-six Insects of all Orders from various parts of Africa, containing much valuable named material; *presented by the Imperial Bureau of Entomology.*

One thousand two hundred and ten Insects of various Orders, collected by the Percy Sladen Trust Expedition to the Seychelles; *presented by Prof. J. Stanley Gardiner, F.R.S.*

Seven hundred and eight Insects of various Orders from British East Africa; *presented by Willoughby P. Lowe, Esq.*

Four hundred and twenty-two Insects of various Orders from Northern Rhodesia; *presented by F. V. Bruce-Miller, Esq.*

Two hundred and ninety-seven Lepidoptera from British East Africa; *presented by John Ainsworth, Esq.*

Two hundred and thirty-one Lepidoptera from Ashanti; *presented by J. D. G. Sanders, Esq.*

America.

One thousand seven hundred Hymenoptera and 675 named Odonata from South and Central America; *presented by F. Du Cane Godman, Esq., D.C.L., F.R.S.*

Eight hundred and twenty-six Micro-lepidoptera from French Guiana.

Five hundred and two Lepidoptera from the Rio Madeira, Brazil; *presented by R. U. Moffat, Esq., M.D.*

Three hundred and eight Lepidoptera from the Rio Madeira, Brazil; *presented by E. H. W. Wickham, Esq.*

Three hundred and ten Insects of various Orders from North America; *presented by Prof. T. D. A. Cockerell.*

Two hundred and thirty-three Insects of various Orders from North America; *presented by K. G. Blair, Esq.*

Two hundred and twenty-five Coleoptera from Arizona; *presented by F. Du Cane Godman, Esq., D.C.L., F.R.S.*

Australasia and Pacific Ocean.

Three thousand three hundred and forty-seven Hymenoptera and 616 Insects of other Orders from Australia and South Tasmania; *presented by R. E. Turner, Esq.*

One thousand four hundred and fifty-one Rhynchota, 977 Coleoptera, 11 Insects of other Orders, and 2 Microscope slides from the Sandwich Islands; *presented by the Joint Committee of the Royal Society and the British Association for the Exploration of the Sandwich Islands.*

Two hundred and forty-four Coleoptera, 52 Rhynchota, 71 Orthoptera, and 3 Diptera, from the Utakwa River, Dutch New Guinea, collected on Mr. A. F. R. Wollaston's Second Expedition to Dutch New Guinea; *presented by the Subscribers to the Expedition.*

One hundred and forty-nine Insects of all Orders from Henderson I., South Pacific; *presented by David R. Tait, Esq., and J. R. Jamieson, Esq.*

The following is a list of donors who have presented specimens to the Department of Entomology in 1913:—

Adams, F. C.
Adkin, R.
Ainsworth, J.
Alcock, Lieut.-Col. A., F.R.S.
Anderson, Dr. D. E.
Andrewes, H. E.
Annandale, Dr. N.
Appleyard, A.
Armstrong, L. (the late)
Ashworth, Dr. J. H.
Atmore, E. A.
Avinoff, A.
Babington, Major W. H.
Bagnall, R. S.
Bahr, Dr. P. H.
Bancroft, Dr. T. L.
Banks, C. S.
Barber, H. S.
Barber, Mrs. M. L.
Barnard, K. H.
Barnes, Dr. W.
Barry, B.
Baylis, H. A.
Beck, R.
Bell, Lieut. E. J.
Bell, T. R.
Belcher, T.
Benderitter, E.
Bergroth, Dr. E.
Betton, C. S.
Beutenmuller, W.
Bird, H.
Black, J. E.
Blair, K. G.
Bloomfield, Rev. E. M.
Boag, G.
Bombay Natural History Society

Boucomont, H.
Bourgoin, A.
Boyd, Mrs. W. C.
Braithwaite, O.
Brincker, Miss J.
British Antarctic ("Terra Nova") Expedition
Broadway, W. E.
Brown, W. R.
Browne, Major F. G.
Bruce, Major G. E.
Bryan, J. M.
Bryant, G. E.
Buchholz, Otto.
Bucknill, Capt. L. M., R.F.A.
Burr, Dr. Malcolm
Bury, G. W.
Butler, E. A.
Buxton, P. A.

Cairo, Department of Agriculture
Cambridge, University Museum of Comparative Zoology
Campion, F. W.
Cardew, J.
Carpenter, Prof. G. H.
Carter, H. J.
Challis, A.
Champion, G. C.
Chapman, Dr. T. A.
Chetwynd, G.
Chubb, E. C.
Clarence, G. C.
Claydon, B.
Cockerell, Prof. T. D. A.
Collins, Miss F.
Comstock, W. P.
Copeman, E. A.
Cort, J. E.
Crawford, D. L.
Crawley, W. C.
Cumming, C. H.

Dawson, Capt. A., R.A.M.C.
Distant, W. L.
Dod, F. Wolley
Dognin, Paul
Doncaster, —.
Donisthorpe, H. St. J. K.
Dudgeon, G. C.
Durrant, H.
Dutton, J. F.
Dziedzicki, Dr. H.

Eaton, Rev. A. E.
Evans, Capt. W. H.

Faber, H.
Faber, S. E.
Finch, J.
Flower, Capt. Stanley S.
Forbes, Dr. H. O.
Forbes, S. A.
Fountaine, Miss M. E.
Frey, Miss F. H.
Froggatt, W. W.
Fryer, J. C. F.

Gairdner, K. G.
Gardiner, Prof. J. Stanley, F.R.S.
Gaye, J. A. de
Gibbs, A. E.
Gibson, A.
Gillet, Dr. J. J.
Glennie, R. F.
Godfrey, E. J.
Godman, Dr. F. Du Cane, F.R.S.
Gough, Dr. L. H.
Gounelle, E.
Grant, W. R. O.
Graves, P. P.
Green, E. E.
Grosvenor, T. H. L.
Grouvelle, A.

Hamilton, C. de Courcy.
Hampson, Sir G. F.
Hancock, R. C. J.
Hart, Lt.-Gen. Sir R.
Hayward, H. C.
Haywood, C. W.
Hingston, Capt. R. W. G., I.M.S.
Horn, Dr. Walther.
Howard, Mrs. A.
Howes. G.
Hughes, Rev. F. S.
Hunt, B. C. Holman
Hurst, C. P.

Imms, Dr. A. D.
Imperial Bureau of Entomology
Imperial Institute

Indian Museum, Calcutta
Ingram, C.

Jackson, Dr. F. W.
Jacobs, Capt. J. J.
Janson, O. E.
Jeffreys, G.
Jenkinson, F.
Joannis, L'Abbe J. de
Johnson, Dr. M. B.
Jones, A. H.
Jones, E. Dukinfield

Kaye, W. J.
King, G. B.
Knox, S. G. E. J.
Kumm, Dr. H. K. W.

Laidlaw, Dr. F. F.
Lawson, Mrs. A. M.
Lea, A. M.
Lefroy, H. M.
Lewis, E. A.
Lewis, G.
Lewis, J. E. A.
Lincoln, Col. W. S.
Longstaff, Dr. G. B.
Loughnan, Capt. W. F. M.
Lowe, W. P.
Ludlow, Miss C. S.
Luvoni, A. B.
Lynes, Capt. H., R.N.

MacDougall, Prof. R. S.
Mann, W. M.
Markham, F. R.
Marshall, G. A. K.
Mathers, Rev. H.
McDunnough, J.
Meade-Waldo, E. G. B.
Miller, F. V. Bruce
Mitzmain, W. B.
Mocsáry, Dr. A.
Moffat, Dr. R. U.
Monro, C. F. H.
Montague, P. D.
Morford, Rev. A.
Morley, Claude
Mosely, M. E.
Moulton, J. C.
Muir, F.

Naturhistorisches Museum, Basle
Navás, R. P. Longinos, S.J.
Neale, Dr. A. E.
Newstead, Prof. R., FR.S.
Nicholson, Dr. G. W.
Nurse, Col. C. G.

Oberthür, René
Ohaus, Dr. F.
Oswald, Dr. F.
Owen, E. J.

Paris, Muséum d'Histoire Naturelle
Peile, Major H. D., I.M.S.
Picado, C.
Pilcher, Col. J. G.
Pole, J.
Poulton, Prof. E. B., F.R.S.
Prall, Lt.-Col. S. E., I.M.S.
Pratt, A. E.
Prout, L. B.

Quelch, J. J.

Rainbow, W. J.
Rake, Mrs. A.
Redmayne, W. B.
Rhodesia Museum
Riedel, M. P.
Roby, Mrs. M.
Rogers, C. G.
Rosenberg, W. F. H.
Rothschild, Hon. L. Walter
Rothschild, Hon. N. C.
Round, Dr. J. Cornwell
Rowley, F. R.
Royal Society and British Association, Joint Committee of, for the Exploration of the Sandwich Islands

Sanders, Lieut. J. D. G.
Sarawak Museum
Schaeffer, Chas.
Schaus, W.
Schrottky, C.
Schwetz, Dr. J.
Scott, H.
Selous, F. C.

Sheldon, W. G.
Sicard, Dr. A.
Silvestri, Prof. F.
Smith, A. Bernhard
South, R.
Spurrell, Dr. H. G. F.
Stanton, Dr. A. T.
Stockall, Miss
Strachan, Dr. H., C.M.G.
Stresemann, E.
Swale, Dr. H.
Swinhoe, Col. C.
Sykes, F. A.

Tait, D. R.
Terzi, A. J. E.
Thornburn, Capt., I.M.S.
Turner, Dr. A. J.
Turner, H. J.
Turner, R. E.

United States National Museum

Vallentin, R.
Vergara, J. M. Vargas
Verity, Dr. R.
Villeneuve, Dr. J.
Vitalis de Salvaza, R.

Wakeling, Dr. T. J.
Walker, Commander J. J.
Walsingham, Lord, F.R.S.
Warren, E.
Waterhouse, F. H.
Waterhouse, C. O., I.S.O.
Waterston, Rev. J.
Watson, Dr. C. E. S., W.A.M.S
Watson, Dr. M.
Weller, E. H.
Wellington, Dr. A. R.
West, W.
White, A.
Wickham, E. H. W.
Willcocks, F. C.
Williams, C. B.
Wollaston, A. F. R., Subscribers to Second Expedition to Dutch New Guinea of
Wood, Dr. J. H.
Wrightmann, S.
Wroughton, R. C.

Yerbury. Lt.-Col. J. W.

VI.—*Economic Entomology.*

The work of the Department in Economic Entomology was carried on with the assistance of specialists in that branch, the services of Professor H. Maxwell Lefroy having been engaged during the first three months of the year, and those of Mr. C. A. Ealand during the last two months.

Satisfactory progress has been made in arranging the Economic collection, in bringing the card index up to date, and in incorporating the accessions received during the year, the chief of which were those presented by the Imperial Bureau of Entomology. In order to facilitate the identification of the commoner insect pests of plants, the formation of a separate collection of these insects, arranged in their systematic order, was commenced and brought to a fairly advanced state before the end of the year.

Work in connection with the Army Biscuit Inquiry initiated by the War Office, and having reference chiefly to damage by moths and beetles, has been continued. A preliminary Report on the subject by Mr. J. H. Durrant (Assistant in the Department) and Lieut.-Col. W. W. O. Beveridge, D.S.O., R.A.M.C., has been published in the Journal of the

Royal Army Medical Corps; and an exhibit illustrating the report was placed on view in the Central Hall of the Museum from the 15th of August until the 12th of November.

By direction of the Trustees, a comprehensive Exhibit of "Insects in Relation to Disease," illustrated by large- and small-scale maps, large-scale models and photographs, and provided with a series of explanatory labels in French and English, was prepared and installed in the Tropical Diseases Gallery of the British Section at the Ghent International Exhibition, where it formed part of the British Government exhibit.

The meetings of the Departmental Committee of the Colonial Office on Sleeping Sickness were, by special leave of the Trustees, attended by Mr. E. E. Austen, Assistant in the Department, and a series of questions relating to the bionomics of Tsetse flies were put by him to witnesses.

Inquiries on matters of economic interest have continued to come in from various parts of the world. Amongst the objects on which information or advice have been sought, and as far as possible given, the following may be mentioned :—

DIPTERA (Flies).

(1) Plague of "large and small flies," usually in September and October, in one room of a country house near Edinburgh.—Measures for treating possible breeding-places suggested.

(2) Inquiry as to best means of getting rid of flies collecting in May on the ceiling of one of the rooms of a house in Yorkshire.

(3) Inquiry as to the identity of a Tsetse-fly found at Dares-Salam, German East Africa.

(4) Species of *Simulium* found at Lymington, Hants, and possibly connected with a case of pellagra in the vicinity.

(5) Plague of Mosquitoes and Midges at Blackmoor, Liss, Hants.—Information supplied as to best method of dealing with same.

(6) *Simulium reptans*, Linn., and *S. nigrum*, Mg., "a terrible pest to man, dogs and cattle" at Bassenthwaite Lake, Cumberland, in May 1913. The flies were stated to have become troublesome "only within the last three years."—Identifications and other information supplied.

(7) Inquiry as to best means of preventing House-flies from breeding.—Information supplied.

(8) Two species of Muscidæ (*Philæmatomyia crassirostris*, Stein, and *Lyperosia exigua*, de Meijere) possibly concerned in disseminating Surra disease among domestic animals in the Philippine Islands. (Inquiry from Veterinary Research Laboratory, Alabang, Rizal, Philippine Islands.)

(9) Bot-fly (*Oestris ovis*, L.) larvæ in nostrils and crania of sheep slaughtered in Valparaiso, Chili.

(10) Bionomics of *Stomoxys calcitrans*, L., in connection with possible agency of this insect in producing a small epidemic of Anterior Poliomyelitis in Oxfordshire.

(11) A Cecidomyid attacking seed-pods of cabbage at Kelvedon, Essex.

LEPIDOPTERA (Moths, etc.).

(12) *Corcyra cephalonica*, Stn., injurious to chocolate, in the United States.

(13) *Ephestia kühniella*, Z., — Parasitic Hymenoptera attached to this species : *Bracon brevicornis*, Wesm., bred freely ; *Nemeritis canescens*, Gravenh., taken at Bermondsey, 5.xii.1913—an Ichneumon new to the British list.

(14) *Pyroderces simplex*, Wlsm. (= *gossypiella*, Wlsm.) in cotton-bolls injured by *Gelechia gossypiella*, Sndrs., etc., Egypt.

(15) *Gelechia gossypiella*, Saunders, damaging cotton-bolls, in Egypt.

(16) *Prays citri*, Mill., very destructive to lemon blossoms, at Petah-Tekorah, near Jaffa.

(17) *Hyponomeuta padella*, L., damaging Hawthorn, at Nottingham.

(18) *Tortrix podana*, Scp., injuring vines, at Upper Edmonton.

(19) *Tortrix callopista*, Drnt., sp. n.: larvæ devouring Coccids (*Stictococcus sjöstedti*, Ckrll.) on *Triumfetta cordifolia*, near Lagos, W. Africa.

(20) *Eucosma solandriana*, L., and *Pinaris conterminella*, Z., damaging Osiers, at Bridgewater.

(21) *Rhyacionia buoliana*, S-D., in pine-shoots, Delamere, Cheshire.

(22) *Ereunetis xenica*, Meyr., injurious to tobacco, at Amani, German West Africa.

(23) The Potato Moth (*Phthorimœa operculella*).—Information supplied.

(24) Information supplied concerning fine thread spinning silk worms.

COLEOPTERA (Beetles).

(25) A Longicorn bettle (*Geloharpya murrayi*) damaging rubber plantations, in W. Africa.

(26) Scolytidæ destructive to forest lands in British East Africa.

(27) Damage to French beans in India by Blister beetles (*Mylabris macilenta*).

(28) Boring beetles in telegraph cables. (Inquiry from the Western Electric Company.)

(29) Larvæ of *Otiorrhynchus* attacking *Euonymus* plants.

(30) *Dermestes* beetles injuring silk-cocoons in India.

(31) Injuries to Cacao wood by *Bostrichus theobromæ* in S. America. (Inquiry from the Ministry of Public Works, Bogota, Colombia.)

(32) Various inquiries concerning the Flour beetle (*Tribolium ferrugineum*).

(33) Several inquiries concerning Wood-boring beetles: *Xestobium tessellatum*, in oak beams; *Bostrichids*, damaging timber in S. Nigeria; and *Anobium domesticum*, in furniture.

(34) An inquiry was received through the Botanical Department and information supplied concerning *Xestobium tessellatum* infesting the timbers in the roof of Westminster Hall.

(35) *Ptinus tectus* in flour at Bermondsey.

ORTHOPTERA and ANOPLURA.

(36) A swarm of cockroaches (*Phyllodromia germanica*) in a house at Chislehurst.

(37) *Pediculus vestimenti* infesting a house in Sussex.

RHYNCHOTA.

(38) Inquiry from the Chief of Agriculture, Ministry of Public Works, Bogota, Colombia, with regard to a species of *Tomaspis* (*T. bogotensis*, Dist.) which was damaging roots of grasses in Colombia.

(39) *Lachnus piceæ* swarming in spruce fir in Cumberland.

(40) Orange trees damaged by *Dactylopius longispinus*.

(41) A spruce plantation in Surrey injured by *Chermes abietis*.

(42) Inquiry from the Government Gardens, Delta Barrage, Egypt, with regard to a disease in Ficus presumably caused by a fungus strongly resembling scale insects.

MISCELLANEOUS.

(43) Thysanoptera in apple-buds at Eastbourne.

(44) Collembola and Psocids in drinking water.

VII.—*Students and Visitors.*

The number of visits paid to the Department during the year by students and other persons seeking information or assistance was 4,837.

C. J. Gahan.

Department of Geology.

I.—*Arrangement and Conservation.*

Mammalia (Galleries 1 and 2).—A special case has been temporarily arranged for the exhibition of plaster casts of the Piltdown skull (*Eoanthropus dawsoni*) and associated remains.

A special case has been provided for a larger exhibit of the Lower Pliocene bone-bed, with Mammalian remains, from Pikermi, Greece.

Pier-case 13, containing the remains of Suidæ, Camelidæ, etc., has been cleaned and re-arranged ; and recent acquisitions of *Elotherium* have been mounted and added.

Labels have been prepared for the newly-described skulls of *Bos* in pier-case 19.

A fine skull of *Elephas meridionalis*, from the Forest Bed, Bacton, Norfolk, has been prepared for study and exhibition.

Numerous Tertiary Mammalian remains from Baluchistan have been prepared for study.

A restored plaster cast of the skeleton of *Arsinoitherium* has been completed for exhibition.

Number of specimens of Mammalia registered, 62.

Reptilia and Batrachia (Galleries 3, 4, 5, 11).—A skeleton of *Pteranodon* and a skull with anterior vertebræ of *Platecarpus*, from the Chalk of Kansas, U.S.A., have been prepared and mounted for exhibition in wall-case 1.

Wall-case 3 has been completely re-fitted and re-arranged to accommodate recently-acquired Crocodilia. The most important specimens added are skeletons of *Mystriosaurus* from the Upper Lias of Würtemberg, *Geosaurus* from the Lithographic Stone of Bavaria, and *Goniopholis* from the Wealden of the Isle of Wight.

A plaster cast of the largest known Dinosaurian humerus (*Gigantosaurus africanus*), from the Lower Cretaceous of German East Africa, has been mounted on a special stand near wall-case 4. The original specimen is in the Royal Natural History Museum, Berlin.

Progress has been made in the preparation and arrangement of the Leeds Collection of Oxfordian Marine Reptiles in wall-cases in the S.E. Basement, and a skeleton of *Ophthalmosaurus* is being mounted for exhibition.

The Triassic and other reptilian foot-prints in wall-cases 8 and 10, Gallery 11, have been partly re-arranged to admit a large slab from the Permian near Exeter, which is now exhibited in wall-case 8.

Numerous Reptilian remains, from the Karoo Formation of South Africa, have been prepared for study.

Number of specimens of Reptilia and Batrachia registered, 159.

Pisces (Gallery 6). — A series of large specimens of Chimæroids and Batoid Selachians have been mounted on one side of the new upright case in the middle of the gallery.

Numerous Chalk Fishes, both English and American, have been extricated from the matrix and prepared for study. Specimens of *Saurodon* and *Stratodus* have been added to the exhibited collection in wall-case 16.

Number of specimens of Pisces registered, 222.

Mollusca (Galleries 7 and 8, and Workroom).—The Cephalopoda registered and labelled include: — Ordovician and Silurian Nautiloids from Bohemia (Klouček & Mascke colls.); Devonian Ammonoids from the South of France (C. Escot coll.); Ammonoids from the Carboniferous Limestone of Ireland, including several types and many figured specimens (Joseph Wright coll.); Cephalopoda from the Trias of Germany (Mascke coll.) and Asia Minor (W. Endriss coll.); Jurassic Ammonites from France (Valabrègue coll.); Asia Minor (Manissadjian coll.) and Chile (Michael coll.); a Dibranchiate Cephalopod from the Lithographic Stone of Bavaria; specimens from the Cretaceous rocks of England (Kent, Oxfordshire, and Yorkshire), Ireland (Donaldson and J. Wright colls.), Germany (A. Schrammen and E. Mascke colls.), Tunis (Spath coll.), and the Lebanon (Gollmer coll.).

Additions to the exhibited series include:—A large British Chalk Ammonite, mounted in a special case between wall-cases 3 and 4; a large Ammonite (wall-case 4), a Scaphite (wall-case 3), a Turrilite (wall-case 3), and a Nautilus (wall-case 2), from the Cretaceous rocks of Hanover; and various British Carboniferous Nautiloids (table-case 2).

The portion of the Gilbertson Collection of Carboniferous Cephalopoda removed from Gallery 11 has been incorporated with the General Collection in Gallery 7, and some of the specimens have been mounted and exhibited in table-case 4.

The slip-catalogue of type and figured specimens of Cephalopoda has been continued.

The Palæozoic Gastropoda and Lamellibranchia registered, labelled, and incorporated include:—Gastropoda from the Ordovician of Bohemia, including the type of *Helminthochiton æquivoca*, Robson (Klouček coll.); Gastropoda and Lamellibranchia from the Carboniferous Limestone of Ireland, including several types and many figured specimens (Joseph Wright coll.), and Lamellibranchia from the Devonian rocks of Devon.

All the British Devonian Mollusca have been examined and their nomenclature revised; of these, 136 have been mounted, labelled, and arranged in table-case 15, Gallery 8, and the rest are being arranged in drawers beneath table-case 16, Gallery 8.

The unexhibited Gastropoda belonging to the Gilbertson collection of Carboniferous fossils, removed from Gallery 11, have been re-labelled and incorporated with the General Collection; while the unexhibited Lamellibranchia from the same collection have been re-labelled and are ready for incorporation.

Considerable progress has been made with the determination and re-arrangement of all the British Carboniferous Gastropoda.

The Mesozoic and Tertiary Gastropoda and Lamellibranchia registered, labelled, and incorporated include:—Non-marine shells from the Eocene, Oligocene, and Miocene of France (Valabrègue coll.), the Miocene of Germany (K. Fischer coll.), the Post-Pliocene of Corsica and France (Caziot coll.), and the Holocene of Newquay, Cornwall (B. B. Woodward coll.); also various Cretaceous shells.

The arrangement of the European non-marine Tertiary Mollusca has now been completed, and a slip-catalogue of the collection has been made.

The Pliocene Mollusca from Lenham, Kent, have been determined and catalogued.

Number of specimens of Mollusca registered:—Cephalopoda, 1,241; Gastropoda, 1,260; Lamellibranchia, 339.

Arthropoda (Gallery 8 and Workroom).—The acquisitions registered, labelled, and incorporated include:—Among Trilobites, an important series from the Cambrian rocks of Comley, Shropshire, including specimens described in the Quarterly Journal of the Geological Society, 1910 (Cobbold coll.), a large series from the Lower Carboniferous of Ireland, including several originals of H. Woodward's Monograph (Joseph Wright coll.), a large number from the Lower Palæozoic rocks of France, especially Hérault (Valabrègue and Escot colls.), and fine specimens from the Devonian of the Eifel; also plaster casts of specimens described by Richter, 1912; among Insecta and Arachnida, a number in nodules from the Coal Measures of Staffordshire (H. Johnson and other colls.); among Ostracoda, carefully-determined sets from the Palæozoic rocks of the United States (Bassler coll.), the Lower Carboniferous of Ireland (Joseph Wright coll.), and the Pliocene of Moravia (Dabell coll.); among Cirripedia, important series from the Chalk Marl of Cambridgeshire (Möckler coll.), the Senonian of Rügen (Laur coll.), the Bryozoa Limestone of Faxe (Mineralog. Mus., Copenhagen), the Miocene of Burma (Dalton coll.), and the Pleistocene of Antrim (Donaldson coll.).

Many of the old collections of Cirripedia have been worked through, determined, and re-registered, *e.g.*, from the Neocomian of Germany (Darwin, Damon, A. Krantz colls.), the Danian of Belgium (Van Breda coll.), the Maestrichtian of Maestricht (Bosquet coll.), and the Miocene of New Zealand

(W. Mantell coll.); plaster casts of important specimens have also been added.

Considerable progress has been made with the mounting of the amber inclusa in glass cells, and experiments are now being undertaken to overcome difficulties met with in similarly mounting the gum-copal inclusa.

The exhibited series of Balani from the British Crag has been revised and provided with new printed labels. The whole of the exhibited series of Cirripedia from Foreign Mesozoic rocks has been removed from the wall-case and incorporated with the collection in the drawers, its place being taken by a specially-selected series of the more instructive specimens newly labelled.

A few additions have been made to the exhibited series of Trilobita and Arachnida.

The slip-catalogue of exhibited specimens has been continued.

Number of specimens of Arthropoda registered, 775.

Echinoderma (Gallery 8).—The acquisitions registered, labelled, and incorporated during the year include :—Echinoidea from the Lower Carboniferous rocks of Ireland (Joseph Wright coll.), the Upper Carboniferous of Staffordshire (J. Ward coll.), the Mesozoic of France (Valabrègue and Lissajous colls.), the Cretaceous of England (Treacher and Möckler colls.), the Senonian of Ireland (Joseph Wright and Donaldson colls.), of Westphalia (Bather coll.), of Tunis (Spath coll.), and of Algeria (Edgar coll.); the Tertiary of Malta (Hitchins coll.), of France (Valabrègue coll.), and of Egypt (G. W. Murray coll.); Asteroidea from the Cretaceous rocks of England (Möckler, Bather, and Faber colls.), of Westphalia (Bather coll.), of Rügen (Laur coll.), of Charente (Welsch coll.), and of Egypt (electrotypes of R. Fourtau's type-specimens); Ophiuroidea from the Carboniferous rocks of Ireland (Joseph Wright coll.) and the Bathonian of Ardèche (Lissajous coll.); Crinoidea from the Palæozoic rocks of various foreign localities (Krantz), the Ordovician of Ohio (Dyche coll.), the Silurian of Shropshire (Bather coll.) and of Gotland (Jas. Wright coll.), the Devonian of the Eifel (Hopmann coll.), the Carboniferous of England (D. M. S. Watson and Spencer Perceval colls.) and of Ireland (Joseph Wright and A. S. Woodward colls.), the Callovian of Ardèche and Neocomian of Isère (Lissajous coll.), the Cretaceous of England (Möckler, Withers, and J. P. Johnson colls.), and of Tunis (Spath coll.); Blastoidea from the Carboniferous rocks of Yorkshire (D. M. S. Watson coll.) and of Ireland (Joseph Wright coll.); Cystidea, comprising Edrioasteroidea, from the Ordovician of Shropshire (Bather coll.) and of the United States (Krantz and Crane colls.), as well as a number of reproductions, mostly made in the Department, of historical specimens.

The chief additions made to the exhibited series are:—A set of *Cidaris* from Faringdon described by H. L. Hawkins, newly-described Blastoids from Somerset, and an example of *Palæaster*, associated with its molluscan prey, from New York State. All the specimens in table-case 29 have been removed, the floor of the case raised, and the Asteroidea and Ophiuroidea re-arranged; the British Palæozoic Echinoidea are being re-arranged in accordance with Prof. R. T. Jackson's recent monograph.

The slip-catalogue of exhibited specimens has been continued.

Progress has been made in the revision and re-arrangement of the Cystidea and Edrioasteroidea, and with the slip-catalogue of genera and species.

Number of specimens of Echinoderma registered: Echinoidea, 263; Asteroidea and Ophiuroidea, 3,843; Crinoidea, 288; Blastoidea, 31; Cystidea and Edrioasteroidea, 99. Total 4,524.

Annelida (Gallery 8 and Workroom).—The acquisitions registered, labelled, and incorporated include specimens from the Cambrian of Bray Head (Bather coll.), the Silurian of Staffordshire (Wickham King coll.), the Cretaceous of England (Möckler and G. Sheppard colls.), Ireland (Joseph Wright, R. Bell, and Donaldson colls.), France (Valabrègue coll.), Westphalia (Bather coll.), and India (W. E. Crane coll.).

The type-specimen of *Pharetrium fragile*, König, 1825, figured in "Icones Foss. Sect.," No. 80, as a supposed Pteropod, has been identified among the foreign Annelida and re-labelled for exhibition. It is *Pyrgopolon mosæ*, Montfort.

The slip-catalogue of exhibited specimens has been kept up to date.

Number of specimens of Annelida registered, 95.

Brachiopoda (Gallery 8 and Workroom).—The registration of the foreign Brachiopoda in the Walker collection has been continued and is approaching completion.

Number of specimens of Brachiopoda registered, 1,420.

Polyzoa (Gallery 8 and Workroom).—One side of an upright case in Gallery 10 has been arranged to exhibit the development and leading structural features of fossil Polyzoa. Recently acquired specimens of Cretaceous Polyzoa, chiefly from Seaford, Boxmoor, and Burnham have been cleaned, mounted, and registered as a preliminary to cataloguing. Of specimens from other formations registered and incorporated, the chief are those, mainly Carboniferous, of the collection of S. G. Perceval, Esq.

Number of specimens of Polyzoa registered, 1,443.

Anthozoa and Hydrozoa (Gallery 10).—A large collection of Carboniferous and Devonian Corals, presented by S. G. Perceval, Esq., has been registered and incorporated. Other

recently acquired specimens, chiefly from the Upper Cretaceous of Gosau and France and the Tertiary of France, and Tertiary specimens presented by the Geological Survey of Egypt, have been registered and incorporated. A beginning has been made of a revision of the Museum Collection of Carboniferous Corals, in connection with which many thin sections have been prepared.

Number of specimens of Anthozoa and Hydrozoa registered, 1,617.

Porifera (Gallery 10).—Newly acquired specimens, chiefly from the Cretaceous of England and Egypt, have been registered and incorporated.

Number of specimens of Porifera registered, 37.

Protozoa (Gallery 10).—Foraminifera and Foraminiferal limestones from the Chalk of England (Gamble coll.), the Cretaceous of France, the Oligocene of France, the Tertiary of Egypt (Geological Survey of Egypt), the Tertiary of Tripoli (J. W. Gregory coll.), the Tertiary of Tunis (Spath coll.), and of Christmas Island (C. W. Andrews coll.), have been registered and incorporated.

Number of specimens of Protozoa registered, 674.

Plantæ (Gallery 10).—The collection of Silurian and Devonian plants has been examined, re-arranged, and re-labelled ; and a selection has been mounted for exhibition in wall-case 18 and table-case 32.

Progress has also been made with the revision of the unexhibited Lower Carboniferous plants.

Some Rhætic plants from Sweden, collected and presented by H.R.H. the Crown Prince Gustaf Adolf, have been mounted for exhibition in table-case 24.

In connection with the Catalogue, progress has been made with the revision of the Cretaceous plants, and numerous microscope-sections of Cretaceous woods have been prepared.

Number of specimens of Plantæ registered, 398.

Tracks and Rock-Specimens (Gallery 11).—Several small additions have been made to the exhibited collection in wall-cases 6, 7.

Number of specimens registered, 19.

Old Collections (Gallery 11 and Workroom).—The greater part of the Pennant collection has been arranged in drawers in table-case 16, and a selection of the more important specimens has been mounted for exhibition in the same table-case.

Much progress has been made in cleaning and arranging the Geological Society's collection in the cabinets in the Workroom.

II.—*Duplicates and Exchanges.*

Duplicate fossils have been presented to University College, London; the Birmingham Museum and Art Gallery; and (in return for services rendered to the Department of Geology) to Dr. E. A. Newell Arber, Dr. P. Fallot, and Dr. S. G. Shattock.

Exchanges of duplicate fossils have been made with the University Museum of Otago, New Zealand; Smithsonian Institution, Washington; the Geological Survey of Prussia, Berlin; the Senckenberg Museum, Frankfurt; and the Geological Museum, University of Lemberg, Austria.

III.—*Departmental Library.*

The additions to the Library which have been registered, stamped, catalogued, and press-marked, comprise 223 new works and pamphlets, of which 48 were purchased and 175 presented; 708 parts of serials in progress, of which 319 were purchased and 389 presented. One hundred and twenty-five sheets of maps were acquired, 43 by purchase and 82 by donations. Ninety-eight photographs were presented. Six volumes and 30 pamphlets were obtained by transfer from other Departments.

Two hundred and forty-four volumes have been bound, press-marked, and returned to the shelves. One thousand nine hundred and fifty-six visits were made to the Library by students and others.

The following is an alphabetical list of personal donors to the Library :—

Andrée, Dr. K.
Andrews, Dr. C. W.
Baker, E. G., Esq.
Bather, Dr. F. A.
Bradley, F. L., Esq.
Cobbold, E. S., Esq.
Cockerell, Prof. T. D. A.
Cossmann, M., Esq.
Crick, G. C., Esq.
Dal Piaz, Prof. G.
Darken, E. M., Esq.
Dawson, C., Esq.
Fischer, Dr. K.
Fraine, Dr. E. de
Green, Upfield, Esq.
Guppy, R. J. Lechmere, Esq.
Howorth, Sir Henry
Jackson, J. W., Esq.
Johnson, Prof. T.
Jongmans, Dr. W. J.
Kisch, Miss M.
Lang, W. D., Esq.
Lissajous, M., Esq.
Maine, H. C., Esq.
Miller, Dr. L. H.
Miquel, J., Esq.
Monckton, H. W., Esq.
Murray, G. W., Esq.
Newton, R. B., Esq.
Nowak, Dr. Jan
Osborn, Prof. H. F.
Passmore, A. D., Esq.
Prankerd, Miss T. L.
Ravn, Dr. J. P. J.
Rupert Jones, C., Esq.
Scrivenor, J. B., Esq.
Seward, Prof. A. C.
Sherborn, C. D., Esq.
Shufeldt, Dr. R. W.
Sinclair, Dr. W. J.
Sollas, Prof. W. J.
Sardina, Count J. B.
Standing, Dr. H. F.
Stopes, Dr. M. C.

Thomas, H. Hamshaw, Esq.
Tutcher, J. W., Esq.
Watson, D. M. S., Esq.
Weiss, Prof. F. E.
Withers, T. H., Esq.
Woodward, Dr. A. S.
Woodward, B. B., Esq.
Woodward, Dr. Henry

IV.—*Publications.*

The second part of the Catalogue of Marine Reptiles of the Oxford Clay, and the first part of the Catalogue of Cretaceous Plants have been published.

Progress has been made with the preparation of Guide Books to Fossil Man and to Fossil Plants.

Apart from the official publications issued by the Trustees, the following descriptive papers dealing with different parts of the collection have been contributed to scientific journals during 1913 :—

By Dr. A. S. Woodward.

1. Note on the Fish-remains from the Upper Devonian (in a Boring at Southall, near Ealing). Quart. Journ. Geol. Soc., vol. xix, pp. 81–83, pl. x.

2. [With Mr. C. Dawson.] On the Discovery of a Palæolithic Human Skull and Mandible in a Flint-bearing Gravel overlying the Wealden (Hastings Beds) at Piltdown, Fletching (Sussex). Loc. cit., vol. lxix., pp. 117–147, pls. xv–xxi.

3. Note on the Piltdown Man (*Eoanthropus Dawsoni*). Geol. Mag. [5], vol. x., pp. 433–434, pl. xv.

4. On a New Specimen of the Cretaceous Fish, *Portheus molossus*, Cope. *Ibid.*, pp. 529–531, pl. xviii.

By Dr. F. A. Bather.

1. Caradocian Cystidea from Girvan. Trans. Roy. Soc. Edinburgh, vol. xlix., p. 359–529, pls. i—vi.

2. *Psalidocrinus:* a new genus of Crinoidea from the Tithonian of Stramberg. Geol. Mag. [5], vol. x., pp. 348–352.

3. *Cydonocrinus parvulus*, n. g. et sp. Ann. Mag. Nat. Hist [8], vol. xii., pp. 388–394.

4. The Trenton Crinoid, *Ottawacrinus* W. R. Billings. Bull. Victoria Mus., Ottawa, vol. i., pp. 1–10, 15, pl. i.

5. Note on *Merocrinus* Walcott. *Ibid.*, pp. 11–14.

6. The fossil Crinoids referred to *Hypocrinus* Beyrich. Proc. Zool. Soc., 1913, pp. 894–913, pl. xc.

By Mr. R. B. Newton.

1. On Some Kainozoic Shells from South Africa. Rec. Albany Museum, vol. ii., pp. 251–285, pls. xvii–xxiv.

2. The Thomas Pennant Collection of Fossils. Geol. Mag. [5], vol. x., p. 192.

By Dr. C. W. Andrews.

1. On the Skull and part of the Skeleton of a Crocodile from the Middle Purbeck of Swanage, with a Description of a new Species (*Pholidosaurus lævis*), and a Note on the Skull of *Hylæochampsa*. Ann. Mag. Nat. Hist. [8], vol. xi., pp. 485–494, pl. viii.

2. On some Bird Remains from the Upper Cretaceous of Transylvania. Geol. Mag. [5], vol. x., pp. 193–196.

By Mr. W. D. Lang.

1. The Lower Pliensbachian—"Carixian"—of Charmouth. Geol. Mag. [5], vol. x., pp. 401–412.

2. Report of a Visit to the Exhibits of Polyzoa and Corals in the Geological Department. Proc. Geol. Assoc., vol. xxiv., pp. 169–173.

By Mr. T. H. Withers.

1. *Verruca prisca* from the Chalk of Norwich. Geol. Mag. [5], vol. x., pp. 103–106.

2. Some Miocene Cirripedes of the Genera *Hexelasma* and *Scalpellum*, from New Zealand. Proc. Zool. Soc., 1913, pp. 840–854, pls. lxxxv., lxxxvi.

3. Cirripedes from the Cenomanian Chalk Marl of Cambridge. *Ibid.*, pp. 937–948, pls. xciv., xcv.

By Mr. D. M. S. Watson.

1. On some Features of the Structure of the Therocephalian Skull. Ann. Mag. Nat. Hist. [8], vol. xi., pp. 65–79.

2. Further Notes on the Skull, Brain, and Organs of Special Sense of *Diademodon*. Loc. cit., vol. xii., pp. 217–228.

3. The Limbs of *Lystrosaurus*. Geol. Mag. [5], vol. x., pp. 256–258.

4. *Micropholis Stowi*, Huxley, a Temnospondylous Amphibian from South Africa. Loc. cit., vol. x., pp. 340–346.

By Mr. R. W. Hooley.

1. On the Skeleton of *Ornithodesmus latidens*, an Ornithosaur from the Wealden Shales of Atherfield (Isle of Wight). Quart. Journ. Geol. Soc., vol. lxix., pp. 372–421, pls. xxxvi.–xl.

By Mr. E. S. Goodrich.

1. On the Structure of Bone in Fishes, a Contribution to Palæohistology. Proc. Zool. Soc., 1913, pp. 80–85.

By Mr. G. A. Frost.

1. The Internal Cranial Elements and Foramina of *Dapedius granulatus*, from a specimen recently found in the Lias at Charmouth. Quart. Journ. Geol. Soc., vol. lxix., pp. 219–222.

By Dr. G. Ulmer.

1. Die Trichopteren des baltischen Bernsteins. Schrift. phys.-oekon. Ges. Königsberg, pt. 10, 1912.

By Prof. P. P. Calvert, Ph.D.

1. The Fossil Odonate *Phenacolestes*, &c. Proc. Acad. Nat. Sci. Philadelphia, 1913, pp. 225–272, pl. xiv.

By Mr. F. J. North.

1. On the genus *Syringothyris*, Winchell. Geol. Mag. [5], vol. x., pp. 393-401.

By Mr. H. L. Hawkins.

1. On *Lanieria*, Duncan, a remarkable Genus of the Holectypoids. Geol. Mag. [5], vol. x., pp. 199–205.

By Dr. K. Andrée.

1. Weiteres über das carbonische Arthrostraken-Genus *Arthropleura*, Jordan. Palæontographica, vol. 60, pp. 295-310, pl. xxiii.

Various fossils in the Department of Geology have also been described and figured by Miss Elles, Mrs. Shakespear, Mr. F. W. Harmer, and Mr. W. K. Spencer, in the Monographs of the Palæontographical Society, vol. lxvii., for 1913.

V.—*Acquisitions.*

A.—*By Donation.*

Mammalia.—A humerus of *Macrauchenia* from Uruguay. *Presented by Joseph Mawson, Esq.*

Six plaster casts of teeth of *Ursus etruscus* from the Pliocene, Tegelen, Holland; originals described by the donor in Verhandl. Geol. Myn. Genootsch. Nederland en Kolonien, Geol. Ser., 1913. *Presented by E. T. Newton, Esq., F.R.S.*

Portion of mandible of *Mastodon*, from Nevada. *Presented by Captain Cecil Banbury.*

One molar tooth of *Mastodon? shepardi*, from the Pleistocene of Lacualpan, Mexico. *Presented by M. Macfarlane, Esq.*

A collection of fossil Mammalian bones from Homa Mt., Kavirondo Bay, British East Africa. *Presented by A. Milliken, Esq.*, per *C. W. Hobley, Esq., C.M.G., and the Manager of the Uganda Railway.*

Mandibular ramus of *Mustela martes* from Paviland Cave, Gower. *Presented by Walter Baker Gabb, Esq.*

Neural spine of a dorsal vertebra of *Elephas*, dredged from the North Sea. *Presented by R. Kirkpatrick, Esq.*

A molar of *Elephas primigenius* that appears to be noticed by Pennant in his "Synopsis of Quadrupeds," 1771, p. 90. *Presented by the Right Hon. the Earl of Denbigh, C.V.O.*

A tooth of *Elephas primigenius* from Bracklesham Bay, Sussex, and one similar tooth from Alaska. *Presented by the Revd. A. Fuller, M.A.*

Four pieces of human skull and an associated mandibular ramus, with ten Mammalian remains (*Mastodon, Stegodon, Hippopotamus, Cervus, Equus*, and *Castor*), three Palæolithic Implements and ten Eoliths, from a gravel on the farm of Barkham Manor, adjoining Piltdown Common, Fletching, Sussex. *Presented by George M. Maryon-Wilson, Esq., and Charles Dawson, Esq.*

Aves—Tracheal rings of *Dinornis* from New Zealand. *Presented by Jacob Flett, Esq.*

Reptilia and Amphibia.—A slab of footprints in Red Sandstone from Poltimore Quarry, near Exeter. *Presented by the Governors of the Royal Albert Memorial Museum, Exeter.*

Two specimens of *Stereosternum* from the Permian, Rio Claro, San Paulo, Brazil. *Presented by Beeby Thompson, Esq.*

A series of thirty-nine plaster casts of remains of Reptiles and Labyrinthodonts from the Upper Permian of the N. Dwina, Russia (including *Pareiasaurus, Inostransevia alexandri, Gordonia annæ, Dwinosaurus primus*, and *D. secundus*). *Presented by Prof. W. Amalitzky.*

One Chelonian from the London Clay of Sheppey. *Presented by Lieut. H. L. Hitchins, R.N.*

Scutes of *Psephophorus calveriensis* from the Upper Eocene, Calvert Cliffs, Maryland, U.S.A. *Presented by Dr. W. Palmer.*

Nine plaster casts of bones of *Testudo* from a rock-fissure at Corradino, Malta. *Presented by Prof. N. Tagliaferro, I.S.O.*

Pisces.—One *Microbrachius dicki* from the Middle Old Red Sandstone, Deerness, Orkney. *Presented by D. M. S. Watson, Esq.*

A Palæoniscid fish (*Elonichthys browni*) from the Lower Carboniferous near Hillsborough, New Brunswick. *Presented by George Howell, Esq.*

Counterpart of the type specimen of *Cœlacanthus africanus*, Broom, Rec. Albany Mus., vol. i (1905), from Upper Trias, Caledon River, Cape Colony. *Presented by Dr. Robert Broom.*

A specimen of *Dictyopyge macrura* obtained by Sir Charles Lyell from the Trias of Richmond, Virginia, U.S.A., described and figured by Egerton, Quart. Journ. Geol. Soc., vol. xii (1847), p. 276, pl. viii and pl. ix, fig. 1. Also four Ganoid fishes

from the Trias of Durham, Connecticut, U.S.A., and five Palæoniscid Ganoid fishes from the Lower Permian of Autun, France. *Presented by Sir Leonard Lyell, Bart.*

A fin-spine of *Nemacanthus* and coprolite from Rhætic bone-bed, Aust Cliff. *Presented by C. Davies Sherborn, Esq.*

A skull of *Dapedius* from the Lower Lias of Lyme Regis, described and figured by the donor in Quart. Journ. Geol. Soc., 1913. *Presented by G. Allan Frost, Esq.*

A skull of *Dapedius* from the Lower Lias of Stonebarrow Cliff, Lyme Regis. *Presented by W. D. Lang, Esq.*

Three Jurassic fish-teeth. *Presented by Spencer G. Perceval, Esq.*

A fossil fish (*Lycoptera davidi*), probably Jurassic, from China. *Presented by Mrs. Robert Bruce.*

One Wealden *Sphenonchus*. *Presented by Lieut. H. L. Hitchins, R.N.*

Scales of *Neorhombolepis* from Lower Cretaceous, S. Amaro, Bahia, Brazil. *Presented by Joseph Mawson, Esq.*

Rostrum of *Protosphyræna stebbingi* from the Lower Chalk, Betchworth, Surrey, the type specimen described by A. S. Woodward, "Foss. Fishes English Chalk" (Mon. Pal. Soc., 1909). *Presented by W. P. D. Stebbing, Esq.*

A specimen of *Enchodus* from the Upper Cretaceous of Austin, Texas. *Presented by Walter E. Koch, Esq.*

A Teleostean fish from the Upper Eocene, Monte Bolca, Verona. *Presented by W. E. Balston, Esq.*

Seven fish-remains from the oil shales, Taubatè, San Paulo Brazil. *Presented by H. T. Burls, Esq.*

Mollusca.—One *Hyolithellus* from the Cambrian, Comley, Shropshire. *Presented by Dr. F. A. Bather, F.R.S.*

Two specimens of *Myalina* from the Devonian, Woodlands Lane, Holford, Somerset. *Presented by C. Davies Sherborn, Esq.*

One *Grammysia* from the Lower Devonian of Lynton, N. Devon. *Presented by Kingsland Jutsum, Esq.*

One *Cucullæa unilateralis* from the Upper Devonian of Braunton. *Presented by Miss Caroline Shuckburgh.*

Four Cephalopoda, one Lamellibranch, and one Gastropod from the Carboniferous Limestone of Ireland. *Presented by Joseph Wright, Esq.*

One Cephalopod from the Permo-Carboniferous of the Salt Range, India. *Presented by Captain F. W. Parish.*

Seventy-two Gastropods and Lamellibranchia, chiefly Liassic, and seventeen Liassic Ammonites. *Presented by Spencer G. Perceval, Esq.*

Five Belemnites from the Pliensbachian of Robin Hood's Bay, Yorkshire *Presented by C. Thompson, Esq., B.Sc.*

One *Dactylioceras semicelatum* from the Upper Lias of Port Mulgrave, Yorkshire. *Presented by James Francis, Esq.*

Twelve portions of *Belemnites oweni*, each with a Lamellibranch in the alveolus, and twelve Lamellibranchs from the Oxford Clay of Fletton, Peterborough. *Presented by Thomas Plowman, Esq.*

An undetermined Cephalopod from the Oxford Clay, Peterborough. *Presented by Alfred N. Leeds, Esq.*

Ten Belemnites from the Kimmeridge Clay of Chapman's Pool, Dorset. *Presented by W. Wright, Esq.*

One Ammonite from the Kimmeridge Clay, five miles east of Weymouth. *Presented by C. S. Hitchins, Esq.*

Plaster cast of portion of an Ammonite found near Mombasa, British East Africa. *Presented by Dr. A. H. Foord.*

Two Ostreiform shells from the Greensand of Farringdon. *Presented by Ll. Treacher, Esq.*

Four Gastropods, twenty-two Lamellibranchs, two Brachiopods, and one Polyzoan from the Barremian Beds of Sandown Bay, I. of Wight. *Presented by Lieut.-Col. L. Worthington Wilmer.*

Forty-five Lamellibranchs and six Cephalopoda, collected by the donors from the Senonian (*Marsupites* zone) of Recklinghausen, Westphalia (*see* Geol. Mag., 1896, pp. 443, 445). *Presented by Dr. F. A. Bather, F.R.S., and Mrs. Bather.*

An Ammonite and a Baculite from the Chalk (zone of *A. quadratus*), E. Leys, Yorkshire. *Presented by George Sheppard, Esq.*

Three pieces of *Nautilus* from the Upper Chalk "sponge bed" of Trimingham, Norfolk. *Presented by R. M. Brydone, Esq.*

Three Lamellibranchs (*Plicatula*), collected by W. H. Edgar, Esq., in the Cretaceous, near Biskra, Algeria. *Presented by C. Griffith, Esq.*

Thirteen Ammonites, thirty-one Lamellibranchs, and six Gastropods from a Mesozoic formation in the workings of the Tarapacá Waterworks Co. *Presented by Frederick Michael, Esq.*

A slab of London Clay Basement Bed from Denham, Middlesex, containing *Panopæa intermedia* and other shells. *Presented by W. D. Lang, Esq.*

One Lamellibranch from the Miocene of Malta. *Presented by Lieut. H. L. Hitchins, R.N.*

One *Pecten* from the Miocene of Jamaica. *Presented by A. C. Bancroft, Esq.*

Twelve Gastropods and twenty-five Lamellibranchs from the Pliocene of Panama. *Presented by Lieut.-Col. L. Worthington Wilmer.*

Five sandstone-casts of *Helix* from the Pliocene of Algeria. *Presented by C. Griffith, Esq.*

Two hundred and seventy-one Gastropods and seven Lamellibranchs from Holocene deposits, Newquay, Cornwall, illustrating the donor's paper, Geol. Mag., 1908, p. 10; twenty Gastropods and two Lamellibranchs from the Pliocene of St. Erth, Cornwall. *Presented by B. B. Woodward, Esq.*

A series of non-marine Mollusca from British Holocene and Pleistocene deposits; also ten Mollusca from the Pliocene of St. Erth, Cornwall. *Presented by J. P. Johnson, Esq.*

A collection of non-marine Tertiary Mollusca from Germany and thirteen Gastropods and one Lamellibranch from the German Tertiary. *Presented by Dr. K. Fischer.*

A collection of thirty-nine Mollusca from the Cainozoic formations of Redhouse, S. Africa, illustrating (but not the originals of) a paper by R. B. Newton in Rec. Albany Museum, vol. 2 (1913), pp. 315–352, pls. xvii–xxiv. *Presented by John Hewitt, Esq.*

One Tertiary *Ostrea* from Alberta. *Presented by W. J. Greenaway, Esq.*

Portions of shells of *Macoma calcarea* from a Post-Pliocene deposit near Reikiavik, Iceland. *Presented by F. H. Sikes, Esq.*

Two Lamellibranch shells of late Pliocene or Post-Pliocene age from Brimstone Hill, St. Kitts, Leeward Is. *Presented by J. J. Quelch, Esq.*

A named collection of Holocene (Neolithic) non-marine Mollusca from northern Ireland. *Presented by R. Welch, Esq.*

Arthropoda. — Thirteen Trilobites from the Cambrian of Comley, Shropshire. *Presented by E. S. Cobbold, Esq.*

Two Cyprids (*Beyrichia*) from the Ordovician of Shropshire. *Presented by Dr. F. A. Bather, F.R.S.*

A plaster cast of *Kampecaris* from the Lower Old Red Sandstone, Balgavies Quarry, Forfar. *Presented by George Hickling, Esq., D.Sc.*

Six plaster casts of Trilobites from the Devonian *Stringocephalus*-Limestone. *Presented by Dr. Rudolf Richter.*

One Crustacean and one Cirripede, collected by the donors from the Senonian (*Marsupites* zone) of Recklinghausen, Westphalia (*see* Geol. Mag., 1896, pp. 443–445). *Presented by Dr. F. A. Bather, F.R.S., and Mrs. Bather.*

Seven valves of the Cirripede, *Pollicipes dorsatus*, from the Danian of Faxe, Denmark. *Presented by the Mineralogical Museum of the University, Copenhagen, Denmark.*

A lobster (*Thalassina scorpioides*) from the Pleistocene of Arson Bay, Northern Territory, Australia. *Presented by E. W. H. Graham, Esq.*

Echinoderma.—Ten Cystids (*Cheirocrinus*) from the Ordovician, Shropshire; and twenty-seven Crinoids from the Wenlock series, Wenlock district. *Presented by Dr. F. A. Bather, F.R.S.*

Three Crinoids (*Cyathocrinus, Eucalyptocrinus,* and *Lithocrinus*) from the Silurian of Gotland. *Presented by James Wright, Esq.*

One Crinoid (*Calpiocrinus*) from the Silurian of Gotland. *Presented by James L. Begg, Esq.*

Five Cystids (*Trematocystis*) from the Niagara Group, Jefferson County, Missouri. *Presented by W. E. Crane, Esq.*

One *Actinocrinus* from the Lower Carboniferous, Avon Gorge, Bristol. *Presented by R. P. Sinor, Esq.*

One Blastoid (*Acentrotremites ellipticus*) obtained by the donor from the Carboniferous Limestone, Wrington, Somerset. *Presented by J. W. Tutcher, Esq.*

One Blastoid (*Orophocrinus orbignyanus*) obtained by the donor from the Carboniferous Limestone, Waterlip, near Shepton Mallet, Somerset. *Presented by J. T. Underhill, Esq.*

One Crinoid (type specimen of *Cydonocrinus parvulus*, Bather, Ann. Mag. Nat. Hist., Oct. 1913), and twenty-two Blastoids, collected by the donor from the Yoredale Rocks of Nidderdale, Yorkshire. *Presented by D. M. S. Watson, Esq.*

Two fragments of the "shell-bed" with Crinoid columnals from the Lower Coal Measures, Ashton Vale Colliery, Bristol; described by Dr. F. A. Bather in the donor's paper, Quart. Journ. Geol. Soc., vol. lxiii (1907), p. 456. *Presented by H. Bolton, Esq.*

Two Echinoids, six Echinoid radioles, two Ophiuroids, and thirty-eight Crinoid remains from the Jurassic of France. *Presented by Monsieur Marcel Lissajous.*

One Echinoid (*Pygurus*) from the Callovian of Sumatra, Cutch. *Presented by J. H. Smith, Esq.*

The type and fifteen figured specimens of *Cidaris coxwellensis*, Hawkins; also twenty specimens of *Cidaris faringdonensis*, H. L. Hawkins, Geol. Mag., Dec. 1912. *Presented by Ll. Treacher, Esq.*

One Asteroid ossicle (*Stauranderaster bulbiferus*) from the *M. coranguinum* zone of Whitchurch, Oxon., figd. by W. K. Spencer, Phil. Trans., ser. B., vol. 204, pl. 13, figs. 1–3, 1913. *Presented by Mr. T. H. Withers.*

Two type-specimens of *Stauranderaster gibbosus*, Spencer, 1913, found by the donor in the Upper Chalk, Rottingdean. *Presented by Harold Faber, Esq.*

Two hundred and eighty-five Crinoidea, including the second known example of *Uintacrinus westphalicus*, ten Asteroidea, and eleven Echinoidea, collected by the donors from the Senonian (*Marsupites* zone) of Recklinghausen, Westphalia (*see* Geol. Mag. 1896, pp. 443–445). *Presented by Dr. F. A. Bather, F.R.S., and Mrs. Bather.*

Three Echinoids (*Holectypus, Bothriopygus, Hemiaster*), collected by W. H. Edgar, Esq., in the Cretaceous near Biskra, Algeria. *Presented by C. Griffith, Esq.*

Five Echinoids from the Miocene of Malta. *Presented by Lieut. H. L. Hitchins, R.N.*

Sixty-two Echinoids from Tertiary deposits at Ras Abu Mingar, Red Sea. *Presented by George W. Murray, Esq.*

One Echinoid (*Clypeaster*) from the Miocene of Minorca. *Presented by Miss D. M. A. Bate.*

One Echinoid (*Echinocardium cordatum*), with spines, from the Red Crag, Walton-on-the-Naze. *Presented by Mrs. A. C. Hay.*

Annelida.—One worm-burrow from the Cambrian of Bray Head, near Dublin. *Presented by Dr. F. A. Bather, F.R.S.*

A pebble of Carboniferous Limestone bored by *Polydora*, from the Rhætic Conglomerate near Hapsford Mills, Vallis, Frome. *Presented by L. Richardson, Esq.*

Two worms from the Lower Lias of Cherrington, Warwickshire. *Presented by S. G. Perceval, Esq.*

Twenty-five Annelids (*Tubulostium*) from the Cenomanian (Utatur Group), Odium, S. India. *Presented by W. E. Crane, Esq.*

Five Annelida, collected by the donors from the Senonian (*Marsupites* zone) of Recklinghausen, Westphalia (*see* Geol Mag., 1896, pp. 443–445). *Presented by Dr. F. A. Bather, F.R.S., and Mrs. Bather.*

A supposed Worm-tube from the Chalk (zone of *A. quadratus*), White Hill, N.W. of Bridlington, Yorkshire. *Presented by George Sheppard, Esq.*

Brachiopoda.—One Brachiopod from the Cambrian, Comley, Shropshire. *Presented by Dr. F. A. Bather, F.R.S.*

Two Brachiopods from the Upper Devonian, Snapper Quarry, Barnstaple. *Presented by Miss Caroline Shuckburgh.*

Four Brachiopoda from the Permo-Carboniferous of the Salt Range, India. *Presented by Captain F. W. Parish.*

A slab of Palæozoic Sandstone with Brachiopoda from 15,000 feet above the sea, Zlulluchaní, near Crucero, Peru. *Presented by Dr. J. Santiago Cardwell-Quinn.*

Eleven Brachiopoda from the Palæozoic and Lias of S.W. England. *Presented by S. G. Perceval, Esq.*

Two Brachiopods (*Misolia*) from Upper Trias, Tifu, Island of Buru. *Presented by Prof. W. Deecke.*

Two Brachiopoda from the Barremian beds of Sandown Bay, I. of Wight. *Presented by Lieut.-Col. L. Worthington Wilmer.*

One Brachiopod (*Terebratula capillata*) from the Red Chalk of Lincolnshire. *Presented by C. S. Carter, Esq.*

Twenty Brachiopods from the Chalk of Aston Rowant, Oxon. *Presented by Mr. T. H. Withers.*

One Brachiopod obtained by the donors from the Senonian (*Marsupites* zone) of Recklinghausen, Westphalia (*see* Geol. Mag., 1896, pp. 443–445). *Presented by Dr. F. A. Bather, F.R.S., and Mrs. Bather.*

Seven Brachiopoda from a Mesozoic formation in the workings of the Tarapacá Waterworks Co. *Presented by Frederick Michael, Esq.*

Polyzoa.—Three Polyzoa from the Wenlock series, Wenlock district, and three Polyzoa from the Carboniferous Limestone of S.W. England. *Presented by S. G. Perceval, Esq.*

One Polyzoan from the Barremian beds of Sandown, I. of Wight. *Presented by Lieut.-Col. L. Worthington Wilmer.*

Twelve Polyzoa from the Bargate Stone near Godalming. *Presented by the Rev. W. A. Shaw.*

About 50 Polyzoa from the Chalk Marl of Cambridge and one Polyzoan from the Chalk of Wilts. *Presented by Mr. T. H. Withers.*

Ninety Polyzoa from the Senonian Chalk of the Chatham district. *Presented by W. Gamble, Esq.*

Five Polyzoa, collected by the donors from the Senonian (*Marsupites* zone) of Recklinghausen, Westphalia (*see* Geol. Mag., 1896, pp. 443–445). *Presented by Dr. F. A. Bather, F.R.S., and Mrs. Bather.*

One Polyzoan from the London Clay, Wokingham, Berks. *Presented by Ll. Treacher, Esq.*

Six Polyzoa from the Tertiary (Aquitanian) of Kach. *Presented by the Director of the Geological Survey of India.*

Cœlentera.—Five Graptolites from the Ordovician of Shropshire and four Corals from the Wenlock series, Wenlock district. *Presented by Dr. F. A. Bather, F.R.S.*

One Coral (*Rhipidophyllum*) from the Lower Devonian of the Eifel. *Presented by Upfield Green, Esq.*

Five hundred and sixty-three Carboniferous and three hundred and seventy-four Devonian Corals, and fifty-seven Corals from other formations, chiefly collected by the donor in the S.W. of England. *Presented by S. G. Perceval, Esq.*

Four sections of the Carboniferous Coral *Aulophyllum* figd. in Quart. Journ. Geol. Soc., vol. lxix. (1913), pl. viii., figs. 1, 2, and 4. *Presented by Prof. E. J. Garwood.*

Thirty-four sections of the Carboniferous Coral *Aulophyllum* described and figured by the donor in Quart. Journ. Geol. Soc., vol. lxix. (1913), pp. 51–77, pls. v–ix.; and one Coral (*Lonsdaleia*) from the Carboniferous Dryburn Limestone of Scremerston, Northumberland. *Presented by Stanley Smith, Esq.*

Four Corals from the Chalk of Kent and Surrey. *Presented by Mr. T. H. Withers.*

One Coral (*Aspidiscus*), obtained by W. H. Edgar, Esq., from the Cretaceous near Biskra, Algeria. *Presented by C. Griffith, Esq.*

One Coral from the Miocene of Minorca. *Presented by Miss D. M. A. Bate.*

Six Corals of Pliocene or Post-Pliocene age from Brimstone Hill, St. Kitts, Leward Isles. *Presented by J. J. Quelch, Esq.*

Four pieces of Coral-bearing Limestone from the Tertiary of Kirk Killissé, Thrace. *Presented by Major E. T. F. Birrell.*

Protozoa.—Two pieces of Foraminiferal Limestone from the Carboniferous, S.W. England. *Presented by S. G. Perceval, Esq.*

Five Foraminifera from the Reading Beds, Eascote, Middlesex. *Presented by A. V. Prior, Esq.*

Two Foraminiferal rocks of late Pliocene or Post-Pliocene age from Brimstone Hill, St. Kitts, Leeward Isles. *Presented by J. J. Quelch, Esq.*

Miscellaneous Invertebrata.—The Thomas Pennant collection of fossils, comprising upwards of 1,000 specimens from various localities, British and foreign. Three Silurian Corals are described and figd. by Pennant in Phil. Trans., vol. 49 (1757), p. 513, pl. 15, figs. 1, 3, and 4. *Presented by the Right Hon. the Earl of Denbigh, C.V.O.*

A series of about two hundred and seventeen fossils collected by E. Eggleston Smith, Esq., from Liassic, Oolitic, Cretaceous, and Tertiary formations between Tangier and Fez, Morocco, namely, fifty-two Cephalopoda, twenty-four Gastropoda, eighty Lamellibranchia, thirty Brachiopoda, ten Echinoderma, twelve Corals, &c., and one Plant. *Presented by Lieut.-Col. the Hon. A. B. Bathurst, M.P.*

Incertæ sedis.—Four specimens of *Oldhamia* from the Cambrian of Bray Head, near Dublin. *Presented by Dr. F. A. Bather, F.R.S.*

Plantæ.—Twenty-four fossil plants from the Middle or Lower Carboniferous (chiefly Interconglomerate Shales) of Pennsylvania, U.S.A. *Presented by William Cash, Esq.*

One plant (*Conostychia*) from the Upper Coal Measures, Vernon Co., Missouri. *Presented by W. E. Crane, Esq.*

Six pieces of Permo-Carboniferous fossil wood from Brazil. *Presented by Joseph Mawson, Esq.*

Twenty-one Rhætic plants collected by the donor at Pålsjö, near Sophiero, Scania. *Presented by H.R.H. The Crown Prince Gustaf Adolf.*

One *Williamsonia* from the Inferior Oolite of Ravenscar, Yorkshire. *Presented by James Francis, Esq.*

Two specimens of *Eretmophyllum pubescens* from the Inferior Oolite (Middle Estuarine Shale), Cayton Bay, near Scarborough. *Presented by H. Hamshaw Thomas, Esq.*

Four specimens of a Jurassic leaf-bed at Roseberry Topping. *Presented by H. Hamshaw Thomas, Esq.*

Twenty plant-remains from the London Clay, Shoeburyness, collected by Quartermaster-Sergeant J. J. Gurnett, School of Gunnery. *Presented by Major A. J. Peile.*

Slab of *Fucoides* from the Eocene Flysch of Dusmana, North Albania. *Presented by Baron Francis Nopcsa.*

A piece of fossil wood, part of a tree found in a railway cutting at Mariquita, near Honda, Colombia, S. America. *Presented by T. Miller, Esq.*

Diatomaceous earth from Teaneraki, Oamaru, New Zealand. *Presented by Jacob Flett, Esq.*

A piece of petrified Palm-rootlets, locality unknown. *Presented by A. E. Ruxton, Esq.*

Rock specimens.—A piece of basal conglomerate of the Llandovery Beds. *Presented by Dr. F. A. Bather, F.R.S.*

A piece of Rhætic Limestone (Sully beds), Lilstock Point, near Watchet, Somerset. *Presented by C. Davies Sherborn, Esq.*

An Ironstone concretion, simulating a mammalian heart, from the Lower Greensand, near Westcott. *Presented by W. D. Waterhouse, Esq., LL.D.*

A piece of conglomerate, showing jointing, from Fortescue River, N.W. Australia. *Presented by R. S. Newall, Esq.*

A concretion from Tychow, Pomerania. *Presented by Dr. W. Gothan.*

A concretion from yellow clay, Ballyhooly, Co. Cork. *Presented by Herbert Beddington, Esq.*

B.—*By Purchase.*

Mammalia.—Jaws of *Zeuglodon isis* from the Eocene of the Fayum.

Skull of *Elephas meridionalis* from Forest Bed, Bacton.

Molar of *Elephas namadicus* from Johore, India.

Three hundred mammalian bones (including the type and other specimens of *Myotragus balearicus*) from the caverns of Majorca (D. M. A. Bate coll.).

Aves.—Fifty bird-bones from the caverns of Majorca (D. M. A. Bate coll.).

Reptilia.—Rostrum of *Ichthyosaurus* from the Lower Lias, Wilmcote.

Hind paddle of *Ichthyosaurus longirostris* from the Upper Lias, Holzmaden, Würtemberg.

Skeleton of *Pteranodon*, portion of mandible and various wing-bones of *Pteranodon*, and pectoral arch of a Mosasaur, from the Chalk of Kansas (H. T. Martin coll.).

Pisces.—Twenty-two Carboniferous fish-remains.

A collection of about 760 specimens of Carboniferous and Devonian fishes, made by the late Dr. R. H. Traquair, F.R.S.

One *Saurostomus esocinus* and one *Caturus* sp. from the Upper Lias, Holzmaden, Würtemberg.

One Selachian (*Crossorhinus?*) from the Lithographic Stone, Bavaria.

Twelve fossil fishes from the Chalk of Kent, including the mandible of *Gyrodus cretaceus* described and figured by A. S. Woodward, "Fossil Fishes of the English Chalk" (1911), p. 251, pl. liv., fig. 5.

Jaws of *Saurodon*, skull, etc., of *Ichthyodectes*, and skull, etc., of *Stratodus* from the Chalk of Kansas (H. T. Martin coll.).

Holosteus esocinus, Mesogaster, Naseus rectifrons, Naseus nuchalis, Diodon tenuispinus, Gobius macrurus, and *Aulostoma bolcense,* from the Eocene of Monte Bolca.

Mollusca.—Thirty Cephalopods from the Palæozoic of Cabrières, Hérault, France (C. Escott coll.).

Fifty-seven European Lower Palæozoic Cephalopoda.

Three Cephalopods from the Middle Devonian of the Eifel.

Five hundred and fifty-four Mollusca from the Carboniferous of Ireland (Joseph Wright coll.).

Three Jurassic Ammonites from San Pedro, Chile.

One *Brasilina tutcheri* from the Jurassic.

One group of *Cyrena* from the Wealden.

One *Exogyra* from the Lower Greensand.

One Ammonite from the Neocomian of Switzerland.

One *Ostrea leymeriei,* from the Aptian, Aylesford.

Mollusca from the Cretaceous of Ireland (J. Wright and G. Donaldson colls.).

Three Ammonites from the Chalk of Kent.

About two hundred and forty fossils, chiefly Mollusca, from the Tertiary and Cretaceous of Tunis (L. Spath coll.).

Two hundred and eighty Cretaceous fossils and one hundred and two Post-Pliocene shells from Ireland (J. Wright and G. Donaldson colls.).

Arthropoda.—Seven Trilobites from the Palæozoic of Cabrières, Hérault, France (C. Escott coll.).

Trilobites from the Middle Devonian, Eifel.

Fifty-four Trilobites from the Carboniferous Limestone of Ireland (Joseph Wright coll.).

Twenty-seven Arthropoda from the Coal Measures, Coseley, Dudley.

Specimens of a new Cirripede from the Chalk Marl of Cambridge.

Crustacea from the Upper Eocene, Monte Bolca.

Echinoderma.—Two specimens of *Palæaster*, one *Aristocystis*, one *Sphæronites*, two *Sphærocystites*, three *Caryocrinus*, from the Ordovician.

Four Cystids from the Palæozoic of Cabrières, Hérault, France (C. Escott coll.).

Four electrotypes of *Microcidaris* and one of *Taxocrinus*.

Cystids from the Wenlock Limestone of Dudley.

Twenty-eight Crinoids from the Middle Devonian, Eifel.

Forty Echinoderms from the Carboniferous Limestone of Ireland (Joseph Wright coll.).

Seven Crinoids from the English Chalk.

Twenty-six electrotypes of fossil Asteroids from Egypt (types of R. Fourtau).

Brachiopoda.—Two Brachiopods from the Palæozoic of Cabrières, Hérault, France (C. Escott coll.).

Six hundred and fifty-four Brachiopoda from the Carboniferous Limestone of Ireland (Joseph Wright coll.).

Brachiopoda from the Chalk Marl of Cambridge.

Polyzoa.—Sixteen Jurassic and Cretaceous Polyzoa from Dorset.

Polyzoa from the Chalk Marl of Cambridge, and from the English Chalk.

Cretaceous Polyzoa from Russia.

Cœlentera.—Five Graptolites and two Corals from the Palæozoic of Cabrières, Hérault, France (C. Escott coll.).

Pleurodictyum from the Devonian of the Eifel.

A hundred and three Corals from the Carboniferous Limestone of Ireland (Joseph Wright coll.).

Two specimens of *Lithodendron rhæticum* from the Rhætic of Bavaria.

Dendrohelia from the Corallian, Switzerland.

Parasmilia and *Cœlosmilia* from the Upper Cretaceous of Germany.

Porifera.—Eight Sponges from the English Chalk.

Protozoa.—Two Foraminifera from the English Chalk.

Twelve hundred and eighty tubes, chiefly of Foraminifera from the Cretaceous of Russia (Toutkowski coll.).

Miscellaneous.—Eighty fossil Invertebrata from the Ordovician of Girvan, Ayrshire (W. McPherson coll.).

Incertæ Sedis.—Two specimens of *Archæocyathus* from the Cambrian of Sardinia.

Ten specimens of *Rhizocorallium* from the Trias and Cretaceous of Germany.

"*Pleurodictyum*" from the Eocene of Trieste.

Plantæ.—Microscope slides of *Stigmariopsis* and *Rhitinangium* from the British Coal Measures.

One Medullosean stem and *Cordaites* from the Coal Measures, Bolton.

Twenty-four Lower Jurassic plants from Cleveland, Yorkshire, described and figured by H. Hamshaw Thomas, Quart. Journ. Geol. Soc., vol. lxix, 1913 (G. J. Lane coll.).

A fossil plant from the Chalk of Kent.

Fifty-eight European Cretaceous plants.

Nitella stacheana from the Lower Eocene, Austria.

Thirty Oligocene plants from Bohemia.

Rock Specimen.—A Paramoudra from the Upper Chalk, Squire's Hill, Belfast.

The total accessions during 1913 are as follows:—

A.—VERTEBRATA.		
By Donation	169	
„ Purchase	1,190	
„ Exchange	12	
		1,371
B.—INVERTEBRATA.		
By Donation	4,317	
„ Purchase	6,898	
„ Exchange	163	
		11,378
C.—PLANTÆ.		
By Donation	85	
„ Purchase	121	
		206
D.—ROCK SPECIMENS.		
By Donation	10	
„ Purchase	1	
		11
TOTAL		12,966

VI.—*Students and Visitors.*

The number of visits paid to the Department by students and other persons for the purpose of consultation or study during 1913 was 5,613.

VII.—*Demonstrations.*

Nine parties were received in the Galleries of the Department of Geology, and demonstrations were given as follows :—

February 15th.—Geologists' Association (32 members); Mr. Lang.

April 12th.—Essex Field Club (32 members); Dr. Woodward.

July 7th.—Geologists' Association (69 members); Dr. Woodward.

July 19th.—Windsor and Eton Scientific Society (8 members); Dr. Woodward.

August 11th.—International Medical Congress (46 members); Dr. Woodward.

November 1st. — Battersea Field Club (25 members); Dr. Andrews.

November 15th.—Lambeth Field Club (18 members); Dr. Woodward.

December 6th. — Geologists' Association (30 members); Dr. Andrews.

December 13th.—South Western Polytechnic Geological Field Club (15 members); Dr. Andrews.

Arthur Smith Woodward.

Department of Mineralogy.

I.—*Arrangement.*

A small series of specimens to illustrate the minerals mentioned in the Bible have been selected from the General Collection, and placed on exhibition in a case in the Pavilion.

The large Crocoite specimens from Tasmania have been cleaned and mounted for exhibition in a special case on the wall in the Gallery.

The Pennant collection of minerals, has been arranged in its original cabinet as nearly as possible in the order in which it was catalogued by Pennant. The Pennant cabinets have been carefully restored and are placed in the rock-room.

The arrangement of a Students' Series of minerals and rocks in two new cabinets has been commenced.

The Asiatic rock-specimens belonging to the Geological Society's Collection have been arranged topographically, partly in the new cabinets in the basement corridor and partly in drawers in the gallery.

In connection with the examination of rocks from various countries the following collections have been re-arranged: —Rock-specimens from Madagascar, Sir Martin Conway's collection from the Karakoram Himalayas, Sir J. C. Ross' collections from the Antarctic, W. K. Loftus' collection from Persia, and various sets of rocks from India.

Many specimens have been removed from the collection of "rock-species" to their places in the topographical collections.

The french-polishing of the Meteoric Irons which showed signs of rusting has been continued.

Eighty-eight boxes or parcels of mineral and rock-specimens have been unpacked and examined; ninety boxes have been despatched.

II.—*Registration, Indexing, and Cataloguing.*

All the specimens of minerals, rocks, and meteorites acquired during the year have been registered, numbered, labelled, and incorporated with the Collection, and many specimens belonging to the Geological Society's Collection have been registered.

The preparation of the slip-catalogues of the mineral-specimens in the Collection, species by species, and of permanent labels giving all available information for each specimen, has been continued for the Divisions of the Haloids, Oxides, and Carbonates. In the course of this work slips have been prepared for the specimens of ilmenite, pseudobrookite, goethite, diaspore, manganite, gibbsite, limnite, turgite, and limonite; topographical lists have been prepared for all the species in the Haloids and Oxides Divisions which have been catalogued; the

slips for hæmatite, ilmenite, pseudobrookite, and goethite have been checked, and the specimens re-arranged; labels have been written for the specimens of corundum (in the drawers), hæmatite, ilmenite, and pseudobrookite, and have been placed with the specimens; 250 specimens of the species aragonite to cerussite belonging to old collections have been entered in the General Register; and permanent labels have been written and placed with all the specimens of the species aragonite to strontianite.

Slip lists have been made of all specimens not entered in the General Register amongst the doubtful species of minerals in the drawers (Case G), and in the Introductory and Species Collections of Rocks, and their history has been traced as far as possible. Of these specimens one hundred and fifty-five minerals and eighty-eight rocks respectively have been registered and labelled.

A list of specimens in the Collection of which figures have been published, more especially in the older literature, has been commenced.

Labels have been affixed inside the doors of the various old cabinets in the Department, stating the history of each.

The preparation of labels for printing has been commenced, locality labels already in stock have been placed in the cases to replace written ones, and the corresponding entries have been made in the alphabetical and topograpical indexes of localities.

The slip-catalogues of the topographical collections of rocks and of the rock-sections have been kept up to date.

Slips have been written for the rocks in the species collection, to form the basis of a list of rock-names.

An index to the foreign rock collections giving the position of the various collections in the gallery, has been prepared.

Three hundred and eight thin-sections of rocks have been microscopically examined and labelled.

The preparation of a copy of the register of the specimens in the Collection has been completed to Vol. XVIII., and the current volume has been copied and brought up to date.

The collection of meteorite sections has been numbered and arranged.

III.—*Preparation.*

Two hundred and twenty-four thin-slices of rocks and meteorites have been prepared.

IV.—*Investigation.*

Twinned crystals of felspar from Portugal and of bertrandite from Cornwall have been measured and described. Crystals of crocoite from Tasmania, brookite from Switzerland, calcite, anglesite, chabazite, copper pyrites, sapphire, datolite, anatase,

corundum, garnet, mimetite, proustite, wulfenite, and zircon have been measured. Doubtful specimens of jade have been determined, and experiments have been made on the effect of heat on the specific gravity of that mineral. All the specimens under "wollastonite" have been carefully determined.

Minerals from the Okehampton district (scapolite, scheelite, idocrase, wollastonite, apatite, &c.), "smaragdite" from Burma, specimens belonging to the halloysite group, anthophyllite and other minerals from Madagascar, and zeolites from Iceland and Ireland have been examined.

Collections of rocks from the Azores, British East Africa, Christmas Island (Indian Ocean), Iceland, Madeira, Sumatra, and Var (France), have been examined; and special reports have been prepared on:—Magnetic basalts from Flores, Azores; rocks from North-West Mongolia; and rocks collected by the Bullock-Workman Expedition to the Siachen Glacier, Himalayas, 1912.

Investigations have been made of the meteoric stones of Baroti and Wittekrantz, and the chemical composition of chondritic meteorites has been studied.

A new stereographic protractor has been designed.

In the chemical laboratory, quantitative analyses have been made of gmelinite from Co. Antrim, and the Baroti and Wittekrantz meteorites; and quantitative determinations of titanic acid have been made in priorite and zirkelite; many doubtful minerals have been qualitatively analysed.

V.—*Departmental Library.*

Arrangement.—Letters relating to the business of the Department have been arranged.

Cataloguing and Press-marking.—170 volumes and 83 title-slips have been press-marked. All the accessions, including 1,756 plates, have been catalogued and stamped.

Proofs of the Library Catalogue have been read and checked against the slip-catalogue in the Department.

Particulars relating to the books received in the Department in the years 1859 to 1882 have been added to the back of the title-slips.

Accessions.—37 volumes of separate works, 32 periodicals (in 411 volumes and parts), 28 pamphlets, 15 parts of works, 42 mining and survey reports, and 9 sheets of maps have been added to the Library. These were acquired as follows:—

By presentation.—5 volumes of separate works, 12 periodicals (in 145 volumes and parts), 21 pamphlets, 4 parts of works, 28 mining reports, and 9 sheets of maps.

By purchase. — 32 volumes of separate works, 20 periodicals (in 266 volumes and parts), 3 pamphlets, and 9 parts of works.

By transfer.—4 pamphlets, 2 parts of works, and 14 mining reports.

Binding.—71 volumes have been bound.

Assistance has been given in the General Library during 16 days and 3 half-days.

VI.—*Publications.*

The following papers most of which relate to specimens in the Collection have been published during the year in the "Mineralogical Magazine and Journal of the Mineralogical Society," 1913, vols. xvi and xvii :—

"The Meteoric Stones of Baroti, Punjab, India, and Witterkrantz, South Africa" : by G. T. Prior (xvii, p. 22).

"On the remarkable similarity in chemical and mineral composition of chondritic meteoric stones" : by G. T. Prior (xvii, p. 33).

"A (sixth) list of new mineral names" : by L. J. Spencer (xvi, p. 352).

"Notes on the occurrence of Bertrandite at some new localities in Cornwall" : by Arthur Russell (xvii, p. 15). The paper contains descriptions of Museum specimens by L. J. Spencer.

"On varieties of Zirkelite from Ceylon." With crystallographic notes by G. F. Herbert Smith : by G. S. Blake (xvi, p. 309).

"Description of an apparatus for preparing thin-sections of rocks" : by G. F. Herbert Smith (xvi, p. 317).

"The graphical determination of angles and indices in zones" : by G. F. Herbert Smith (xvi, p. 326).

"A new stereographic protractor" : by G. F. Herbert Smith (xvii, p. 46).

"The mineral collection of Thomas Pennant (1726–1798)" : by W. Campbell Smith (xvi, p. 331).

VII.—*Acquisitions.*

1,780 specimens have been acquired, namely :—

1,187 minerals, 585 rocks, and 8 meteorites.

The most interesting of these acquisitions, from a historic point of view, is the old collection of Minerals formed by Thomas Pennant (*see* p. 225). With the exception of a few specimens, this has not been distributed in the General Collection, but has been retained in its original oak cabinet as a collection of historic interest, illustrating an old natural history system of classification.

Exchanges of specimens have been arranged with Dr. Latteux, of Paris, and Mr. James Broadhead, of Darlington.

The following mineral names added to the Museum List were previously not represented by specimens in the collection :—

Ampangabeite, barbierite, barytbiotite, betafite, chalcomorphite, chillagite, cupromagnesite, delafossite, epidesmine, fizeleyite, guañapite, hatchite, hokutolite, klementite, krugite, lyonite, molysite, pyknochlorite, schuchardtite, vrbaite.

The specimens acquired by presentation (arranged alphabetically according to donors) and by exchange, and a selection of the more important of those obtained by purchase, are as follows :—

Minerals.

By Presentation :

Calcite pseudomorphous after aragonite from north-west Oklahoma, U.S.A. : *by Dr. T. J. Anthony.*

A unique group of ruby crystals from Upper Burma : *by A. L. Bacon, Esq.*

Plumosite from Foxdale mine, Isle of Man : *by Dr. John Ball.*

Orthoclase (Baveno-twin) and muscovite from new Portuguese occurrences : *by Antonio Maria d'Oliveira Bello, Esq.*

Iron-pyrites with chalk and flint from Bognor, Sussex : *by F. A. Bowyer, Esq.*

Hæmatite ("kidney-iron-ore") from Pawton mines, St. Breock, Cornwall : *by James Blake Brown, Esq.*

Fibrous calcite from Hilborough gravel pit, Great Yarmouth : *by Col. E. A. Butler.*

Proustite crystals from Copiapo, Chili : *by F. H. Butler, Esq.*

Graphite from Monte Brazil, Terceira, Azores : *by Col. F. A. Chaves.*

A polished slice of green zircon, showing banding, from Ceylon : *by Sir Arthur H. Church, K.C.V.O., F.R.S.*

Alstonite on barytes from New Brancepeth Colliery, Durham : *by Messrs. Cochrane & Co., Ltd.*

A large group of crystals of smoky quartz from Bloomdale China Clay Works, St. Stephens, Cornwall : *by J. M. Coon, Esq.*

A mounted plate of phlogopite, showing pseudo-pleochroism and absorption-figure : *by T. Crook, Esq.*

Pennant Collection :—A collection of minerals formed between the years 1746 and 1798 by Thomas Pennant (1726-1798), of Downing, Holywell, Flintshire, contained in an old oak cabinet of 38 drawers. About 340 numbered specimens are referred to in 3 vols of MS. Catalogue, written by T. Pennant in 1757, which accompanied the collection, and about 430 unnumbered specimens are also preserved. The collection

includes:—Minerals from Flintshire, described by Pennant in "The History of the Parishes of Whiteford and Holywell" (1796); specimens from Cornwall given to Pennant by the Rev. Wm. Borlase, author of "The Natural History of Cornwall" (1758); specimens given by Emanuel Mendes da Costa, author of "A Natural History of Fossils" (1755); specimens given by Erich Ludvigsen Pontoppidan, Bishop of Bergen, author of "The Natural History of Norway" (1755). Several of the specimens in the collection are mentioned in these books: *by the Rt. Hon. the Earl of Denbigh, C.V.O.*

An isolated twinned crystal of quartz: *by Dr. Julien Drugman.*

A number of exceptionally fine specimens, including:—Crystallized gold from Neveda Co., California; a large crystal of phosgenite from Monteponi, Sardinia; a fine crystal of rubellite from Barra de Salinas, Brazil; a large block of granite with a crystal-lined cavity containing pollucite, tourmaline, foresite, &c., from Elba; pseudomorphs of malachite after chessylite from Tsumeb, German South-West Africa; a large series of fine crystallized specimens of barytes, quartz, and pyrites from the iron mines of west Cumberland; alstonite and witherite from Nenthead, Cumberland; groups of twinned crystals of quartz from the Aosta valley, Piedmont; chalcedony from Carmean, Co. Londonderry; rock-salt from Duncrue, Co. Antrim; galena pseudomorphous after pyromorphite ("blue lead-ore") from Berncastel, Rhenish Prussia: *by F. N. A. Fleischmann, Esq.*

Garnet (almandine) from Danbury, New Hampshire, U.S.A.: *by George M. Flint, Esq.*

A large specimen of adularia, showing Manebach and Baveno twinning; three large specimens of calcite with quartz; brookite on quartz; rutile on ilmenite; and a large anatase crystal; all obtained by the donor in Switzerland: *by the Rev. J. M. Gordon.*

Felspar (oligoclase) crystals from Canisp, Sutherland: *by Prof. J. W. Gregory, F.R.S.*

Gypsum enclosing sand, from the Caspian Sea: *by Francis A. Holiday, Esq.*

A faceted yellow beryl, weighing 2·821 grams, from Madagascar; a set of eight cut turquoises from the Sinai Peninsula; four faceted specimens of manufactured corundum, two of them parti-coloured, and one faceted specimen of artificial spinel: *by E. Hopkins, Esq.*

A specimen of crystallized basic copper phosphate from Bwana M'Kubwa copper mines, Rhodesia: *by Dr. A. Hutchinson.*

Sulphur from Japan: *by Dr. K. Inouye.*

Hokutolite from Formosa: *by Prof. K. Jimbō (through Dr. A. K. Coomaraswamy).*

Colourless fluor from West Burton, Aysgarth, Wensleydale, Yorkshire; chessylite from Hell Gill, Mallerstang, Westmorland: *by W. B. R. King, Esq.*

Gypsum (artificial crystals) from a Cornish engine boiler; two isolated crystals of tantalite from South Africa: *by Benedict Kitto, Esq.*

A carved specimen of calcined jade from China: *by Madame E. Langweil (through Rufus E. Moore, Esq.).*

Chromite and celestite from Baluchistan: *by C. R. Lindsey, Esq.*

Chalcedony (agate, &c.) pebbles from Jamaica: *by R. C. MacCormack, Esq.*

Diopside in calcite from Upper Burma: *by Lieut.-Col. F. G. L. Mainwaring.*

Garnet (hessonite) with pyrites from Meldon, Okehampton, Devonshire; stibiconite from Rhodesia: *by F. P. Mennell, Esq.*

A series of specimens illustrative of the products of the Burma Ruby Mines, comprising:—Precious rubies graded into five qualities, a rare specimen of ruby-sapphire, ruby in calcite, clear isolated octahedra of ruby-spinel, spinel in limestone, sapphire in the matrix, moonstone, pink scapolite, and loose specimens of the minerals associated with precious ruby in the gravels: *by A. H. Morgan, Esq.*

Native sulphur from Ras Gimsha, Red Sea, Egypt: *by G. W. Murray, Esq.*

Sapphire crystal in matrix from Yogo Fork, Montana: *by the New Mine Sapphire Syndicate (through F. H. Wood, Esq.).*

Cassiterite crystals, of elongated pyramidal habit, from Northern Nigeria: *by Dr. Richard Pearce.*

Chacedony stained by copper, three drilled and roughly-polished discs, from Tarapaca, Chili: *by Mrs. Renforth Scarr.*

Bismutite and tourmaline in bismutite from Northern Rhodesia: *by the Rhodesia Katanga Junction Railway and Mineral Company.*

A large specimen of hübnerite from Huara wolfram mine, Prov. Pallasca, Dept. Ancachs, Peru: *by Messrs. Rösing Brothers & Co.*

Hydrozincite from Van mine, Llanidloes, Montgomeryshire; six specimens of fluor and calcite from Halkin mine, Flintshire: *by Arthur Russell, Esq.*

Chalcedony with curious hacked enclosures: *by A. E. Ruxton, Esq.*

Strüverite from the river Sebantum, Salak North, Perak; corundum boulders from the Gopeng beds, Kinta, Federated Malay States; garnet (andradite) from China: *by J. B. Scrivenor, Esq.*

A number of cut sheets of mica (muscovite) from Chutia Nagpur, India, illustrating trade varieties: *by Harry N. Sherman, Esq.*

Four polished slices of chalcedony: *by Miss Caroline Shuckburgh.*

Epistilbite and other zeolites collected by the donor in Iceland: *by F. H. Sikes, Esq.*

A series of specimens collected by the donor near Okehampton, Devon, including: — Chalcedony from Gooseford mine; chabazite from Ramsley mine; garnet and axinite from Belstone mine; garnet and actinolite from Redaven Brook; axinite, garnet, and heulandite from Wheal Forest; datolite, apophyllite, chabazite, and wollastonite from quarries at Meldon: *by W. Campbell Smith, Esq.*

Crystals of hatchite, the original material described by the the donor: *by R. H. Solly, Esq.*

Witherite and aragonite from Arkengarthdale, Reeth, Yorkshire; witherite from Nenthead, Cumberland, collected by the donor: *by L. J. Spencer, Esq.*

A series of jadeite specimens, also wolframite and smoky quartz, from Burma: *by Rodway C. J. Swinhoe, Esq.*

Rutile pseudomorphous after anatase from the Sopa diamond mine, Rio das Petras, Minas Gereas, Brazil: *by Percy C. Tarbutt, Esq.*

Chalcedony from Droogveldt, South Africa; *by L. D. C. Thomas, Esq.*

Fine crystal of scheelite from the Ulu Piah Company's tin mine, Kinta, Federated Malay States: *by the Ulu Piah Company.*

By Exchange:

Pectolite, calcite, and pyrites on basalt, and garnet in metamorphosed limestone, from Middleton, Teesdale, Co. Durham.

Chessylite from Richmond, Yorkshire.

By Purchase:

Beryl, a fine, flawless, faceted stone of a rich pink colour, weighing 119·74 grams, from Madagascar.

Gold, two large crystallized plates from Nevada Co., California. Five pieces of riband gold from Colombia, South America.

Crocoite, three large groups of fine crystals from Tasmania.

Beryl, two isolated crystals of the vorobyevite variety from Savateyevo, Siberia. Idocrase, in large well-defined crystals, and achtaragdite, in simple and interpenetrating triakisoctahedra, from River Vilyui, Siberia.

Dioptase, a large group of brilliant crystals, and plancheite, from Guchab, Otavi, German South-West Africa. Mimetite, in large crystals, wulfenite, tsumebite, brochantite, cerussite, etc., from Tsumeb, in the Otavi district.

Barytes, several finely-crystallized groups and one crystal $11\frac{3}{4}$ inches in length; also calcite, marcasite, and pyrites; from the iron mines of west Cumberland.

Barytes, a large isolated crystal from Puy-de-Dôme, France.

Copper and silver (native) in sharp crystals and native copper enclosed in a clear crystal of calcite from Lake Superior, Michigan; chiastolite crystals from Fresno Co. and Madera Co., California; baddeleyite from Montana; stibiotantalite from California; crystallized plattnerite from Idaho; delafossite crystals from Bisbee, Arizona; and various other minerals from American localities.

Cassiterite, large isolated crystals, from Portuguese East Africa.

Tourmaline (rubellite), clear crystals and cut slices from Barra de Salinas, Minas Geraes, Brazil.

Blende, groups of large twinned crystals (spinel-twins), from Shiraita, Japan; also crystallized hæmatite and galena from Japanese localities.

Corundum (sapphire), simple and twinned crystals from Kashmir.

A series of gem-stones from Queensland and New South Wales, including "black" opal, diamond crystals, zircon, olivine, sapphire, and garnet.

Crystals of betafite, bastnäsite, columbite, monazite, ampangabeite, and cut slices of tourmaline crystals from Madagascar.

Euclase and fluor from Epprechtstein, Bavaria; jade, orthite, brunsvigite, rhodonite, wollastonite, etc., from the Radauthal, Harz; rhodochrosite, a fine specimen, and cuprite from the Wolf mine, Siegen, Westphalia; strontianite, an aggregate of distinct prismatic crystals from Hamm, Westphalia; and various minerals from other German localities.

Rocks.

By Presentation:

Volcanic lapilli and palagonite-tuff from Monte Brazil, Terceira, Azores: *by Col. F. A. Chaves.*

A series of rock specimens (esterellite, etc.) collected by the donor in the Esterel Mountains, Cannes, France: *by Dr. Julien Drugman.*

Spheroidal granite (4 large blocks) from Mullaghderg, Co. Donegal, and microgranite from Oritor, Co. Tyrone: *by F. N. A. Fleischmann, Esq.*

Six specimens from Mt. Kinabalu, British North Borneo: *by Miss L. S. Gibbs.*

Eleven rocks from Karungu, Uganda, British East Africa; *by C. W. Hobley, Esq., C.M.G.*

Rocks (31, with 20 thin-sections) from between Machakos and Lake Magadi, British East Africa. (Collected and described by J. Parkinson, Esq.): *by the Magadi Soda Co. Ltd. (through John Parkinson, Esq.).*

Country rock from the Hampden Cloncurry copper mine, N. W. Queensland: *by C. Maitland, Esq.*

A series of 332 specimens collected by the donor, mainly from mines in Southern Rhodesia, but including a few from North-Western Rhodesia, Nyasaland, Transvaal, and Natal: *by John L. Popham, Esq.*

Gravels and sands from gem-washings on the Jiblong River, Liberia, West Africa: *by Henry Reeve, Esq.*

Serpentine breccia, etc., from Gwinnings mine, Mullion, Cornwall: *by J. B. Rule, Esq.*

Hornfels with garnet from Walkhampton, Devonshire: *by Arthur Russell, Esq.*

Tourmaline-corundum rocks from Kinta, Federated Malay States: *by J. B. Scrivenor Esq.*

Five rocks from the Concordia silver-lead mines, Cerro Bayo, Argentine, collected by the donor: *by Ralston C. Sharp, Esq.*

Boulder of Shap granite from Withernsea, Yorkshire: *by G. Sheppard, Esq.*

A large basalt stalactite from the Vidgeymir cave near Gilsbakki, and 15 other rock specimens collected by the donor in Iceland: *by F. H. Sikes, Esq.*

A series of rocks collected by the donor near Okehampton, Devon: *by W. Campbell Smith, Esq.*

A collection of 22 specimens, each polished on one surface, illustrating the different varieties of serpentine from the Lizard, Cornwall: *by F. W. Timmis, Esq.*

By Purchase:

A series of 110 specimens collected by the late Edward Whymper during his travels in 1879–80 in the Andes of Ecuador.

A series of 13 typical specimens (with corresponding thin-sections) of the platinum-bearing rocks of the Urals.

Meteorites.

By Exchange:

Lonaconing, Maryland, U.S.A., an etched slice weighing 74 grams of the iron found in 1888.

By Purchase:

Chinautla, Guatemala, Central America, an etched slice weighing 189 grams of the iron found in 1902.

Ahumada, Chihuahua, Mexico, a slice weighing 606 grams of the siderolite found in 1909.

El Nakhla El Baharia, Egypt, three complete stones weighing respectively 641, 313, and 110 grams from the fall of June 28, 1911.

St. Michel, Finland, a fragment weighing 958 grams of the stone which fell on July 12, 1910.

Tennasilm (Sikkensaare), Esthonia, Russia, a fragment weighing 177 grams of the stone which fell on June 28, 1872.

Those meteorites of which the names are italicized belong to falls hitherto unrepresented in the Museum Collection.

VIII.—*Donation of Duplicates.*

Duplicate specimens of minerals have been given to Mr. Antonio Maria d'Oliveira Bello, Mr. F. N. A. Fleischmann, and Prof. J. Joly.

IX.—*Students and Visitors.*

The number of visits recorded as made to the Department for the purposes of consultation or study is 641. Minerals and rocks have been identified for the Devizes Museum and for the Cheltenham Museum, and many specimens of minerals have been determined for visitors and correspondents.

George T. Prior.

Department of Botany.

I.—*Arrangement and Conservation.*

During the past year 30,350 specimens have been incorporated with the Herbarium. This number includes 23,825 Flowering Plants, 2,742 Vascular Cryptogams, 1,687 Mosses, 65 Hepatics, 762 Lichens, 417 Algæ, and 852 Fungi.

Flowering Plants.—Collections acquired during the year by donation and purchase have been mounted and incorporated wholly or in part. Outstanding specimens have been mounted and incorporated in various families, especially Rubiaceæ, Ericaceæ, and other families of Gamopetalæ, Orchidaceæ, Gramineæ, and other families of Monocotyledons; and the selection, determination, and incorporation of the early Australian collections has been continued. Progress has been made with the separation of the European material (families Rosaceæ to Umbelliferæ) and its re-arrangement according to Nyman's "Conspectus Floræ Europææ"; outstanding specimens have been incorporated in the families dealt with. The Fryer Collection of British Potamogetons has been in part selected.

Work of revision and re-arrangement has been done in various families, especially Geraniaceæ, Rubiaceæ, Ebenaceæ, Sapotaceæ, and in the genera *Millettia, Alchemilla, Bombax, Rhododendron, Solanum,* and the Tropical African genera of Ulmaceæ and Moraceæ.

Cryptogams.—Various early sets of exsiccata have been investigated, identified, and labelled with the author's name.

Ferns.—Progress has been made with the sorting, mounting, and incorporation of outstanding specimens from all sources, especially in the genera *Asplenium, Aspidium, Nephrodium.* A representative series of N.W. Indian Ferns, selected from the late Mr. Hope's herbarium, has been prepared for incorporation, and a corresponding revision of the species already in the general collection has been made. Small collections from North Borneo (Gibbs), Perak (Sheffield), and elsewhere have been determined.

Bryophyta.—Collections of Mosses from India, China, and Guatemala (Levier), India (Duthie, Roberts, King), Malay Islands (Fleischer, Elmer), have been in part mounted and incorporated. Various sets of North American Mosses have been sorted into series ready for incorporation. Small collections from North Borneo (Gibbs), Perak (Sheffield), and the British Isles have been determined.

Algæ.—The re-arrangement of the Florideæ according to De Toni's Sylloge, including incorporation of additions, has been completed in the following families:—Helminthocladiaceæ, Chætangiaceæ, Gigartinaceæ, Gelidiaceæ, Rhodophyllidaceæ, and in the genera *Callithamnion, Antithamnion,* and *Spermothamnion.* Small collections, chiefly British, have

been determined. The box-collection of Algæ has been re-arranged and labelled.

Lichens.—Progress has been made with the revision and incorporation of the British Lichens, principally of the families Cladoniaceæ, Parmeliaceæ, Stictaceæ, Pannariaceæ. Small collections from the British Isles and from Perak have been determined.

Fungi.—Progress has been made with the sorting, mounting, and incorporation of exotic Fungi. All outstanding specimens of the Discomycetes have been incorporated, and progress has been made with the Pyrenomycetes. Numerous specimens and small collections have been determined and added to the British series. The box-collection of Fungi has been re-arranged and labelled.

Mycetozoa.—Collections by Miss G. Lister have been prepared for incorporation.

Exhibition Series.—Various specimens have been added to the general and special series of Exhibits, and two of the large wall-cases have been repainted and the specimens cleaned. An illustrative collection of plants from Cape Colony, presented by Mrs. W. E. Balston, has been placed on exhibition, progress has been made with the exhibition of British Seaweeds, and a small series of colour photographs of British flowering plants, taken and presented by Mr. Essenhigh Corke, has been placed in position. In the Index Museum, in the Central Hall, the exhibition of Ferns and Fern allies has been completed, and progress has been made with the preparation of the exhibition of Mosses and Liverworts.

Catalogues and Guides.—A Catalogue of the plants collected by Mr. and Mrs. P. Amaury Talbot in South Nigeria has been published, and a Monograph of the genus *Sabicea* by Mr. H. F. Wernham has been prepared for publication. Progress has been made with the preparation, printing, and illustration of the continuation of the *Flora of Jamaica* by Mr. Fawcett and Dr. Rendle, with the preparation of the Catalogue of the Sloane Herbarium by Mr. J. Britten, with the revision of the first volume of the *Catalogue of British Lichens* by Miss Annie Lorrain Smith, and with the preparation of a guide to the exhibition of British Lichens.

II.—*Investigation.*

Collections have been determined wholly or in part from the following localities and collectors : — New Guinea (Wollaston expedition), South Nigeria (Amaury Talbot), Belgian Congo (Rogers), Rhodesia (Monro), Uganda (Dümmer), Bolivia (Herzog), and Columbia (Sprague).

Dr. Rendle has devoted some time to the study of the Tropical African species of Ulmaceæ and Moraceæ, and Mr. Fawcett and Dr. Rendle have continued their work on the Jamaica species of the families of Dicotyledons, Mr. Baker

has completed his critical study of the African species of *Crotalaria*, and Mr. Wernham his monographic study of the genus *Sabicea*. Mr. Ramsbottom has devoted some time to the investigation of the British Uredineæ and Discomycetes; and work on various families and genera has been carried on by numerous British and foreign botanists. By the permission of the Trustees, Mr. Wernham was enabled to spend some weeks in study at the important herbaria in Paris, Madrid, Geneva, and Brussels; and Mr. Ramsbottom similarly at Berlin. Numerous specimens and small collections have been determined for students and collectors.

In connection with work done in the Department, specimens have been generously lent by the Director of the Royal Gardens, Kew; the Director of the Botanical Department of the Naturhistoriska Riks-Museum, Stockholm; the Director of the Botanical Museum of the Royal Bavarian University of Ludwig-Maximilian; the Regius Keeper of Botany, Edinburgh; the Government of Jamaica; and Dr. E. De Wildeman.

Undetermined material has been lent for study and determination as follows:—22 specimens of *Utricularia* to Prof. H. Glück, Botanical Institute, Heidelberg; 302 specimens of South American *Solanum* to the Director of the Botanic Garden, Bremen; specimens of Mycetozoa to Miss G. Lister; 127 specimens of Tropical African *Ficus* to the Director, Royal Gardens, Kew; 21 specimens of *Derris* and 17 South Indian specimens to Mr. S. T. Dunn; 76 specimens of *Bidens* to Prof. J. M. Coulter, University of Chicago; and one specimen of *Indigofera* to Mr. W. Craib.

III.—*Departmental Library.*

1. *Arrangement, Cataloguing, and Pressmarking.*—The registering, stamping, and cataloguing of additions to the library and other routine work has been carried out. Departmental assistance in connection with the Catalogue of the Library published by the Trustees has been continued. Over 1,300 plates have been mounted and incorporated with the General Collection.

2. *Accessions.*—The additions during the past year have been, by donation, 107 volumes, 115 pamphlets; by purchase, 150 volumes, 2 pamphlets—in all, 257 volumes and 117 pamphlets. These numbers include 25 periodicals in 1,012 parts presented and 84 periodicals in 566 parts purchased—in all 109 periodicals in 1,578 parts.

The following is a list of the principal donors: — His Grace the Duke of Northumberland, K.G., F.R.S.; C. A. Backer, Esq.; F. M. Bailey, C.M.G., F.L.S.; R. T. Baker, F.L.S.; W. Barclay, Esq.; The Minister for the Colonies, Belgium; Royal Botanical Society, Belgium; Director, Botanic Gardens, Berlin; Dr. F. C. E. Børgesen; J. Britten, F.L.S.; Director, Léo Errera Botanical Institute, Brussels; Director,

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The following donations other than books have been received:—A collection of 11,325 plates and original drawings formed by Isaac Swainson in the eighteenth century was presented by H. S. Cooper, Esq.; a series of pencil sketches, principally of pollen grains, with MS. notes and observations by the late Francis Buckell, was presented by his son Edward Buckell, Esq.

3. *Binding.*—164 volumes have been bound and several others repaired.

IV.—*Publications.*

(1) *Issued by the Trustees.*—Catalogue of the Plants collected by Mr. and Mrs. P. Amaury Talbot in the Oban District, South Nigeria. By Dr. Rendle, E. G. Baker, H. F. Wernham, S. Moore, and others.

(2) *Issued by the permission of the Trustees.*—Plants of the Sudan collected by Dr. D. T. MacDougal. By Dr. Rendle, S. Moore, H. F. Wernham, A. J. Wilmott, and A. Gepp. (Journal of Botany.)

New Plants from Jamaica, II. By Dr. Rendle and Mr. W. Fawcett. (Journal of Botany.)

The Genus *Flagenium.* By H. F. Wernham. (Journal of Botany.)

New Rubiaceæ from Tropical America, II–III. By H. F. Wernham. (Journal of Botany.)

The Mussændas of the African Continent. By H. F. Wernham. (Journal of Botany.)

Alabastra Diversa, Part XXIII. Plantarum novarum Africanarum Pugillus. By S. Moore. (Journal of Botany.)

Some notes on the history of the classification of the Uredinales. By J. Ramsbottom. (Transactions, British Mycological Society.)

New or rare Microfungi. By J. Ramsbottom and Miss A. Lorrain Smith. (Transactions, British Mycological Society.)

Bibliographical Notes:—"The Botany of the Antarctic Voyage." By F. G. Wiltshear. (Journal of Botany.)

(3) *By Students of the Collections other than Members of the Staff.*—Philip Miller's Plants. By Mr. J. Britten. (Journal of Botany.)

John Frederick Miller and his "Icones." By Mr. J. Britten. (Journal of Botany.)

Two South African Plants. By Mr. R. Dümmer. (Journal of Botany.)

The British Species of *Arctium.* By Mr. A. H. Evans. (Journal of Botany.)

The British Willows. By Rev. E. F. Linton. (Journal of Botany.)

Some Bornean Aroideæ. By Mr. H. N. Ridley. (Journal of Botany.)

A New *Alpinia* from Borneo. By Mr. H. N. Ridley. (Journal of Botany.)

Hypericum Desetangsii Lamotte in Britain. By Mr. C. E. Salmon. (Journal of Botany.)

Drosera macrantha and *D. stricticaulis.* By Mr. O. H. Sargent. (Journal of Botany.)

A Revision of the Genus *Symphytum* Tourn. By Mr. C. Bucknall. (Journal of Linnean Society.)

The Banana: its Cultivation, Distribution, and Commercial Uses. By Mr. W. Fawcett.

Phœangella Empreti Boud. and some forgotten Discomycetes. By Miss A. Lorrain Smith. (Transactions, British Mycological Society.)

Thuidium recognitum Lindb. and its Allies. By Mr. H. N. Dixon. (Journal of Botany.)

Miscellanea Bryologica, I.–II. By Mr. H. N. Dixon. (Journal of Botany.)

Studies in the Bryology of New Zealand, Part I. By Mr. H. N. Dixon. (Bulletin, New Zealand Institute.)

V.—*Acquisitions.*

(1) *By Donation.*

Additions to the British Herbarium have been received from the following donors:—The Council of the South London Botanical Institute, seeds of 101 species, mainly British; H. C. Baker, Esq., 2 Phanerogams; E. J. Bedford, Esq., 4 Orchids; C. E. Britton, Esq., 148 Phanerogams; C. Bucknall, Esq., 3 species of *Symphytum;* E. M. Day, Esq., 2 Phanerogams; G. C. Druce, Esq., 62 Phanerogams; Mrs. F. L. Foord-Kelcey, 2 species of *Galium;* Miss G. Lister, 167 Mycetozoa; J. E. Little, Esq., 2 Phanerogams; Rev. E. S. Marshall, 200 Phanerogams; Mrs. Evelyn Northcote, 2 species of *Plantago;* Rev. H. J. Riddelsdell, 152 Phanerogams; H. N. Ridley, Esq., C.M.G., 9 Phanerogams from Cornwall; Rev. W. M. Rogers, 4 species of Rubi; C. E. Salmon, Esq., 41 Phanerogams; W. R. Sherrin, Esq., 3 Moss-slides for microscope, 2 Mosses, and 5 Hepatics; the Watson Botanical Exchange Club, 71 Phanerogams; also single specimens from Messrs. H. A. Britten, E. W. Hunnybun, C. P. Hurst, R. C. Lucas, J. W. White, and Misses E. F. Noel, J. M. Roper, and K. Skinner.

The following donations have been made to the General Herbarium:—

Europe.

Miss L. S. Gibbs, 24 Phanerogams and 2 Ferns from Iceland; H. F. A. Mallock, Esq., F.R.S., diatom-material (*Gomphonema capitatum*) from South of Spain; Hon. N. C. Rothschild, 7 Phanerogams chiefly from Hungary; C. E. Salmon, Esq., 4 Phanerogams; W. R. Sherrin, Esq., 3 Alpine Mosses; H. S. Thompson, Esq., 2 Phanerogams from South of France; Major A. H. Wolley-Dod, 20 Gibraltar plants; also single specimens from Prof. A. X. P. Coutenho and F. Raine, Esq.

Asia.

Prof. F. O. Bower, specimens of a new species of Fern from Darjeeling (*Matteuccia*); S. T. Dunn, Esq., Fruits of *Derris parviflora* from Ceylon; Miss L. S. Gibbs, 304 Phanerogams and 128 Cryptogams from British North Borneo; Sir E. G. Loder, Cones of *Pinus pumila* from S. Yakutsk in Siberia; Dr. E. D. Merrill, 9 Photographs of Philippine

Rubiaceæ; the Director of the Imperial Botanic Gardens, St. Petersburg, 2 new species from E. Asia; J. N. Sheffield, Esq., 10 Ferns, 24 Mosses, 24 Hepatics, and 10 Lichens from Perak; and 1 Fungus from C. G. Lloyd, Esq.

Africa.

Mrs. W. E. Balston, 113 Phanerogams from vicinity of Cape Town; Lieut. G. St. J. Orde Browne, 32 Phanerogams from Kenya Province, Brit. E. Africa; R. H. Bunting, Esq., 50 Phanerogams from Liberia; Col. F. A. Chaves, sample of Coorongite containing Diatoms from Lake Furnas, Azores; T. F. Chipp, Esq., 52 Phanerogams and 2 Ferns from the Gold Coast: Dr. D. T. MacDougal, 195 Phanerogams and 6 Cryptogams from Egypt and Red Sea Province; R. E. Massey, Esq., 150 Flowering Plants from the Soudan; C. F. H. Monro, Esq., 452 Phanerogams and 6 Ferns from Rhodesia; Hon. W. Rothschild, 23 Phanerogams and 1 Fern from N.W. Algeria and 8 enlarged photographs of trees in the Public Gardens, Algiers; the Percy Sladen Trustees, 22 plants collected in South West Africa by Prof. H. H. W. Pearson; Mr. and Mrs. P. Amaury Talbot, 738 Phanerogams and 3 Ferns from the Eket District, South Nigeria; also single specimens from Mrs. M. Burnie, the Director, Royal Gardens, Kew, Dr. E. De Wildeman, Dr. R. Marloth, and E. Warren, Esq.

Australasia.

Miss B. de Pledge, specimen of *Verticordia Forrestiana* from Western Australia.

Oceania.

Miss L. S. Gibbs, 8 Phanerogams and 3 Ferns from Hawaii.

America.

Mr. R. Heber Howe, Junr., 24 Lichenes Novæ Angliæ; Prof. H. Lecomte, 3 Rubiaceæ from Tropical America; Rev. A. Miles Moss, 35 Brazilian plants; T. A. Sprague, Esq., 21 Rubiaceæ from Venezuela; the Director, University Botanic Garden, Pennsylvania, 26 North American Scrophularineæ; also single specimens from Prof. G. B. De Toni, the Director of Agriculture in Jamaica, Messrs. A. Morrell, W. Sands, G. E. H. Wilson, and Prof. I. Urban.

General.

Miss G. Lister, 340 exotic Mycetozoa.

Cultivated Plants.

W. E. Balston, Esq., 3 Orchids; R. H. Beamish, Esq., inflorescence of *Furcræa* and 3 other plants; E. A. Bowles, Esq., 2 Phanerogams; Sir Trevor Lawrence, Bart., 10 Orchids; J. O'Brien, Esq., 2 Orchids; D. M. Moss, Esq., some abnormally developed pears; Hon. N. C. Rothschild, 29 Orchids; also single specimens from W. E. Ledger, Esq., Rev. E. F. Linton, Messrs. Sander & Son, and S. K. Williams, Esq.

Specimens for Exhibition.—Mr. H. Essenhigh Corke has presented for exhibition 20 colour photographs on glass of British Flowering Plants; the Director, Royal Botanic Gardens, Kew, 11 species of Flowering Plants; the Curator, Physick Garden, Chelsea, 71 specimens.

(2) *By Purchase.*

British Isles.

Botanical Exchange Club, 108 Phanerogams; Rev. E. F. Linton, 17 specimens of British Willows; C. E. Hartley Smith, 10 specimens of prepared British Fungi. Special mention should be made of the Moss-Herbarium of Dr. R. Braithwaite, estimated to contain 5,300 specimens, representing 600 species, the types of his British "Moss-Flora" (1880–1905).

Europe.

Through Dulau & Co.—O. Jaap, 50 Fungi selecti, ser. XXV, XXVI, and 20 Myxomycetes, ser. VII; J. E. Kabát and Bubák, 50 Fungi Imperfecti, fasc. XV; K. W. Krieger, 50 Fungi Saxonici, fasc. XLV; A. Paulin, Flora exsiccata Carniolica, cent. IX, X; D. Saccardo, 169 Fungi, Mycotheca Italica, cent. XVII, XVIII, Part I; J. Schiller, H. Cammerlohe, and G. Seefeldner, 30 Algæ Adriaticæ, cent. I, fasc. 2; H. and P. Sydow, 50 Fungi, Mycotheca Germanica, fasc. XXIV; A. Toepffer, 50 specimens, Salicetum exsiccatum, fasc. VIII; T. Vestergren, 150 Micromycetes rariores selecti, fasc. LXIII–LXVIII.

Through R. Friedländer & Sohn.—M. Britzelmayr, 144 Lichenes Bavariæ exsiccati, with figures.

Through T. O. Weigel.—V. F. Brotherus, 100 Mosses, Bryotheca Fennica, fasc. III; A. Fiori et A. Béguinot, Flora Italica exsiccata, cent. XVII, XVIII; A. von Hayek, 50 specimens, Centaureæ exsiccatæ criticæ, fasc. I; F. Petrak, 100 specimens Flora Bohemiæ et Moraviæ exsiccata, lief. XII.

From the Publishers.—H. Sudre, Batotheca Europæa, fasc. XI, 50 specimens, and Herbarium Hieraciorum, fasc. III, 50 specimens.

Asia.

S. T. Dunn, 40 Chinese plants collected by E. E. Maire; W. Siehe, 250 rare Oriental plants (selected).

Africa.

E. Chiovenda, Flora della Colonia Eritrea, cent. I, II, prepared by A. Pappi; E. Gilg, 290 Phanerogams and 10 Vascular Cryptogams from Cameroons, collected by G. Zenker; E. M. Reineck, 312 Algerian plants collected by A. Faure, and 276 plants collected in Morocco and Tunis by C. J. Pitard;

Rev. F. A. Rogers, 120 Phanerogams from Rhodesia and Congo District; T. O. Weigel, 25 Fungi, Mycotheca Boreali-Africana, fasc. IV, prepared by R. Maire; F. Wilms, 399 Phanerogams and 69 Cryptogams collected in Natal by H. Rudatis, and 93 Phanerogams collected in Uganda by G. Scheffler.

America.

E. Bartholomew, 500 Fungi Columbiani, cent. XXXVIII–XLII, and 300 North American Uredineales, cent. VI–VIII; E. W. Berger, exhibition specimens and photographs of parasitic Fungi on Scale Insects; T. S. Brandegee, 302 Phanerogams and 30 Ferns collected in Mexico by C. A. Purpus; W. E. Broadway, 273 Phanerogams and 27 Cryptogams from Tobago; O. Buchtien, 147 Phanerogams and 53 Vascular Cryptogams from Bolivia; Collins, Holden, & Setchell, 50 Algæ, Phycotheca Boreali-Americana, fasc. XXXVIII (per Dulau & Co.); E. Hassler, 402 Phanerogams and 11 Cryptogams from Paraguay; C. C. Haynes, 20 American Hepaticæ, decades XI, XII; E. M. Reineck, 10 selected species of Mosses, mostly from Central America; H. von Türckheim, 226 Phanerogams and 15 Vascular Cryptogams from Guatemala (per T. O. Weigel); I. Urban, 633 Phanerogams and 142 Cryptogams collected in St. Domingo by M. Fuertes.

General.

Through Dulau & Co.—H. Rehm, 118 Fungi, Ascomycetes exsiccati, fasc. LII, LIII; H. Sydow, 150 Fungi exotici exsiccati, fasc. II–IV; P. Sydow, 50 Uredineæ, fasc. LI, 25 Ustilagineæ, fasc. XII, and 25 Phycomycetes and Protomycetes.

Through V. Schroeder.—101 Ferns, mostly tropical, determined by E. Rosenstock.

(3) *By Exchange of Duplicates.*

Oakes Ames, 102 Orchids from the Philippine Islands; Director, Hungarian National Museum, Budapest, Flora Hungarica exsiccata, cent. I; Prof. K. Domin, 100 Phanerogams from Montenegro; Director, Royal Gardens, Kew, 11 plants from Keeling Island; Botanist, Bureau of Science, Manila, 1,779 Phanerogams and 868 Cryptogams, mainly from the Philippine Islands; Director, Botanical Garden, New York, 625 Phanerogams and 31 Cryptogams from Bermuda, Cuba, and Jamaica; Department of Botany, Riksmuseet, Stockholm, 159 Brazilian Grasses; Director, National Herbarium, Sydney, 48 Australian plants; Curator, Botanical Department, Hofmuseum, Vienna, 100 Kryptogamæ exsiccatæ, cent. XXI, mostly European; Director, Botanic Garden and Institute of the University, Vienna, 400 plants, Flora exsiccata Austro-Hungarica, cent. XXXVI–XL; Curator, U.S. National Herbarium, Washington, 141 West Indian Grasses; Director, Botanic Gardens, Zürich, 3 plants from Cameroons.

VI.—*Students and Visitors.*

The number of visits to the Department for consultation and research during the year was 3,455. This is less than the number recorded for 1912, as during that year an attempt was made to record the considerable number of students who work systematically at the British collections and other educational exhibits in the Public Gallery. It was, however, found impracticable to keep such a record.

VII.—*Demonstrations.*

Demonstrations on the collections have been given by Mr. Ramsbottom to members of the Selborne Society and to students from the Southlands College. Facilities for a demonstration to students from the Royal College of Science have also been given.

A. B. Rendle.

ART COLLECTIONS CATALOGUES, &c.

(Sold only at the Galleries.)

NATIONAL GALLERY.

British and Foreign Pictures. Descriptive and Historical Catalogue. With Biographical Notices of the Painters. 81st edition. (1913.) Price 1*s.*

British and Foreign Schools. Abridged Catalogue. With short Biographical Notices of the Painters. (1913.) Price 6*d.*

National Gallery British Art. Catalogue. With Descriptions, Historical Notes, and Lives of Deceased Artists. 21st edition. (1914.) Price 6*d.*

Turner Bequest. A complete Inventory of the Drawings. 2 vols. (1909.) Price 15*s.*

NATIONAL PORTRAIT GALLERY.

Pictures, Busts, &c. Historical and Descriptive Catalogue. 15th edition, with Supplement. (1914.) Price 6*d.*

Paintings, Sculptures, Miniatures, &c. Illustrated List. 2nd edition. (1913.) Price 6*d.*

WALLACE COLLECTION.

European Armour and Arms. Catalogue. 4th edition. (1910.) Price 6*d.*

Furniture, Marbles, Bronzes, Clocks, Candelabra, Majolica, Porcelain, Glass, Jewellery, Goldsmith's and Silversmith's Work, Ivories, Medals, Illuminations, Miniatures, and Objects of Art generally. Catalogue. 6th edition. (1911.) Price 6*d.*

Oriental Arms and Armour. Catalogue. 1st edition. (1914.) Price 6*d.*

Pictures and Drawings. Catalogue. With Historical Notes and Short Lives of the Painters. 13th edition. Illustrated. (1913.) Price 1*s.*

ROYAL NAVAL MUSEUM, GREENWICH.

Catalogue of Exhibits. (1913.) Price 3*d.*, or, bound, 6*d.*

SCOTLAND.

National Gallery. Catalogue. 44th edition. (1914.) Price 6*d.*

National Portrait Gallery. Catalogue. 7th edition. (1909.) Price 6*d.*

IRELAND.

National Gallery and National Portrait Gallery. Pictures and other works of Art. Catalogue. (1904.) Price 6*d.*

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RETURN to an Order of the Honourable The House of Commons, dated 17 February 1915;—*for*,

COPY "of Account of the INCOME and EXPENDITURE of the BRITISH MUSEUM (SPECIAL TRUST FUNDS) for the Year ending the 31st day of March 1915; and, RETURN of the Number of PERSONS admitted to visit the MUSEUM and the BRITISH MUSEUM (NATURAL HISTORY) in each Year from 1909 to 1914, both Years inclusive; together with a STATEMENT of the PROGRESS made in the ARRANGEMENT and DESCRIPTION of the COLLECTIONS, and an ACCOUNT of OBJECTS added to them in the Year 1914."

Treasury Chambers,
5 July 1915.

E. S. MONTAGU.

(*Mr. Secretary Harcourt.*)

Ordered, by The House of Commons, *to be Printed*, 5 *July* 1915.

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1915.

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BRITISH MUSEUM
OFFICE
26 AUG 1915
NATURAL HISTORY

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BRITISH MUSEUM.

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I.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

		Cash.	Stock, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCES on the 1st April 1914 - - -		45 17 4	13,659 3 2
- DIVIDENDS received on 13,659*l.* 3*s.* 2*d.* Stock in 2½ per Cent. Consols, bequeathed by the Earl of Bridgewater, viz.:			
On the 5th April 1914 -	£. 85 7 4		
,, 5th July 1914 -	- 85 7 4		
,, 5th October 1914	- 85 7 4		
,, 5th January 1915	- 85 7 4		
		341 9 4	
- RENT OF A REAL ESTATE, Whitchurch, bequeathed by the Earl of Bridgewater (less repairs, &c.) - - - - - - -		5 7 5	
	£.	392 14 1	13,659 3 2

II.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

		Cash.	Stock, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCES on the 1st April 1914 - - -		12 13 4	2,879 10 7
- DIVIDENDS received on 2,879*l.* 10*s.* 7*d.* Stock in 2½ per Cent. Consols bequeathed by Lord Farnborough, viz.:			
On the 5th April 1914 -	£. 17 19 11		
,, 5th July 1914 -	- 17 19 11		
,, 5th October 1914	- 17 19 11		
,, 5th January 1915	- 17 19 11		
		71 19 8	
	£.	84 13 0	2,879 10 7

III.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the

		Cash.	Stock, 2½ °/₀ Consols.
		£. s. d.	£. s. d.
To BALANCES on the 1st April 1914 - - - -		12 19 1	5,744 - 8
- DIVIDENDS received on 5,744*l.* - 8*d.* Stock in 2½ per Cent. Consols, bequeathed by Dr. George Swiney for Lectures on Geology, viz.:			
On the 5th April 1914 - -	£. 35 18 -		
,, 5th July 1914 -	- 35 18 -		
,, 5th October 1914	- 35 18 -		
,, 5th January 1915	- 35 18 -		
		143 12 -	
	£.	156 11 1	5,744 - 8

BRIDGEWATER FUND, from the 1st April 1914 to the 31st March 1915.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By One Year's Salary of the Egerton Librarian -	175 - -	
- Balances on the 31st March 1915, carried to Account for 1915-1916 - - -	217 14 1	13,659 3 2
£.	392 14 1	13,659 3 2

FARNBOROUGH FUND, from the 1st April 1914 to the 31st March 1915.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
- Balances on the 31st March 1915, carried to Account for 1915-1916 - - -	84 13 -	2,879 10 7
£.	84 13 -	2,879 10 7

SWINEY FUND, from the 1st April 1914 to the 31st March 1915.

	Cash.	Stock, 2½ °/₀ Consols.
	£. s. d.	£. s. d.
By Amount paid to Dr. J. D. Falconer, for Lectures on Geology in 1914 - - - - - -	140 - -	
- Balances on the 31st March 1915, carried to Account for 1915-1916 - - -	16 11 1	5,744 - 8
£.	156 11 1	5,744 - 8

IV.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of

			Cash.	Stock, 2½ °/₀ Consols.
			£. s. d.	£. s. d.
To BALANCE on the 1st April 1914 - - - -			—	565 3 9
— DIVIDENDS received on 565*l.* 3*s.* 9*d.* Stock in 2½ per Cent. Consols, bequeathed by Dr. Birch in 1766, for the three Under Librarians of the British Museum, viz.:				
On the 5th April 1914 - -	£. 3 10 8			
„ 5th July 1914 - -	3 10 8			
„ 5th October 1914 -	3 10 8			
„ 5th January 1915 -	3 10 8			
			14 2 8	
		£.	14 2 8	565 3 9

V.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the bequest 1st April 1914 to

	Cash.
	£. s. d.
To BALANCE on 1st April 1914 - - - - - - - - -	6,415 13 10
	£. 6,415 13 10

VI.—AN ACCOUNT of the RECEIPTS and EXPENDITURE of the 1st April 1914 to

	Cash.
	£. s. d.
To BALANCE on the 1st April, 1914 - - - - - - -	756 3 4
	£. 756 3 4

the BIRCH FUND, from the 1st April 1914 to the 31st March 1915

	Cash.	Stock, 2½ % Consols.
	£. s. d.	£. s. d.
By Legacy paid to the three Under Librarians of the British Museum, whose offices existed in 1766, viz., the Keepers of the Departments of Printed Books, Manuscripts, and Natural History - - - - - - - - - -	14 2 8	
– Balance on the 31st March 1915, carried to Account for 1915-1916 - - -	—	565 3 9
	£. 14 2 8	565 3 9

of the late MR. CHARLES DRURY EDWARD FORTNUM from the the 31st March 1915.

	Cash.
	£. s. d.
By Amount transferred to H.M. Paymaster-General in aid of the Parliamentary Vote, 1914–1915 - - - - - - - - -	3,700 13 10
– Balance on the 31st March 1915, carried to Account for 1915–1916 - - - - - - - - - - - - - - -	2,715 0 0
	£. 6,415 13 10

CARCHEMISH EXCAVATIONS FUND from the the 31st March 1915.

	Cash.
	£. s. d.
By Amount expended on Excavations, authorship of Report, &c.- -	267 9 3
– Balance on the 31st March 1915, carried to Account for 1915–1916	488 14 1
	£. 756 3 4

Frederic G. Kenyon,
Director and Principal Librarian.

VII.—NUMBER of Persons Admitted to Visit the British Museum and the British Museum (Natural History).

A.—Persons Admitted to View the General Collections in the British Museum in each Year from 1908 to 1913, both Years inclusive.

	1909.		1910.		1911.		1912.		1913.		1914.	
	Week-day.	Sunday.	Week-day.	Sunday.	Week-day	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.	Week-day.	Sunday.
January	49,213	4,154	48,368	4,122	55,442	2,663	54,607	3,045	61,198	3,886	71,239	4,162
February	36,296	3,400	46,081	3,479	44,315	3,424	49,586	3,128	48,745	3,005	62,365	4,163
March	43,517	5,855	59,783	5,325	58,111	6,633	*13,341	*2,292	70,292	6,655	61,580	7,915
April	58,175	4,779	59,623	6,095	64,215	7,993	57,077	4,542	70,361	7,045	73,629	5,010
May	43,049	6,196	48,271	6,309	47,400	5,273	54,467	4,202	67,464	4,753	72,249	8,277
June	54,703	6,908	55,362	5,856	52,277	6,847	51,891	7,030	61,330	5,715	65,742	5,646
July	66,484	6,637	68,956	11,481	61,311	6,156	62,503	5,487	90,497	6,171	78,741	6,002
August	76,856	7,389	81,401	6,813	70,068	5,142	101,300	7,343	107,901	8,239	57,020	5,225
September	66,097	6,347	52,249	7,466	54,726	4,793	79,456	8,039	102,107	5,192	49,091	4,431
October	53,989	7,028	52,543	6,559	55,374	7,113	63,496	4,812	83,091	5,365	60,376	4,775
November	47,962	3,389	48,228	3,593	52,588	3,982	54,593	3,898	61,502	4,350	48,899	3,992
December	47,802	2,611	49,239	2,635	43,959	3,766	54,777	3,960	59,440	2,686	50,861	3,127
Total Number of Persons admitted to view the General Collections.	644,143	64,693	670,104	69,733	659,786	63,785	697,094	57,778	884,028	63,062	751,792	62,725
	708,836		739,837		723,571		754,872		947,090		814,517	

* The Museum was closed from March 5 to 24 inclusive.

Number of Visits of Students to particular Departments.

—	1909.	1910.	1911.	1912.	1913.	1914.
To the Reading Room	217,975	219,274	223,404	236,643	243,659	224,560
„ Newspaper Room	21,122	19,200	19,212	18,450	17,938	16,704
„ Map Room	371	443	584	502	439	400
„ Department of Manuscripts	11,683	11,256	11,731	12,142	12,090	10,277
„ Department of Oriental Printed Books and Manuscripts.	2,678	2,218	2,617	2,446	3,254	2,968
„ Print Room	9,343	9,343	9,649	9,833	7,064*	5,406*
„ Egyptian and Assyrian Department	3,260	3,020	3,110	3,451	3,860	3,000
„ Greek and Roman Department	563	418	609	755	1,744†	1,566†
„ Galleries of Sculpture	1,077	1,843	2,301	1,879	1,945	2,138
„ British and Mediæval Department	3,591	3,665	3,260	3,646	3,827	2,873
„ Coin and Medal Room	4,377	4,228	4,050	4,044	3,565	3,321
Total	276,040	274,908	280,527	293,791	299,385	273,213

* The Students' Room of the Department of Prints and Drawings was closed for removal of the fittings to the new wing from 6th September 1913 to 7th May 1914.

† Including visits for archæological inquiry.

The British Museum, Bloomsbury (including the Departments of Printed Books and Maps, Manuscripts, Oriental Printed Books and Manuscripts, Prints and Drawings, Egyptian and Assyrian Antiquities, Greek and Roman Antiquities, British and Mediæval Antiquities and Ethnography, and Coins and Medals) is open to the public free daily (except on Good Friday and Christmas Day and days of Public Fast or Thanksgiving) as follows:—

On WEEKDAYS from 10 a.m. to 6 p.m.

After 4 p.m. in January, February, November, December, and after 5 p.m. in March, September, October, only certain of the galleries remain open, viz.:—

On MONDAYS, WEDNESDAYS, and FRIDAYS.	Exhibitions of Manuscripts, Printed Books, Prints and Drawings, Porcelain, Glass and Majolica; Prehistoric, British, Anglo-Saxon, Mediæval and Ethnographical Collections.
On TUESDAYS, THURSDAYS, and SATURDAYS.	Egyptian, Assyrian, Greek and Roman Galleries; Gold Ornament Room, American Prehistoric, British, Anglo-Saxon Collections, and the Waddesdon Bequest Room.*

On SUNDAY AFTERNOONS:—

From 2 to 4	p.m. in January, February, November, December.
„ 2 „ 5	„ „ October.
„ 2 „ 5.30	„ „ March, September.
„ 2 „ 6	„ „ April, May, June, July, August.

Persons applying for the purposes of research and reference are admitted to the Reading Room under certain regulations every weekday, except the days specified below, from 9 a.m. until 7 p.m. The Newspaper Room is open, under similar regulations, from 10 a.m. until 5 p.m.

The Reading Room, Newspaper Room, and Students' Rooms in the Library and Department of Manuscripts are closed on Sundays, Good Friday, Christmas Day, and the first four weekdays in March and September.

* From October 1914 to the end of March 1915 it was necessary to close the exhibition galleries at dusk.

Other Students' Rooms are closed on Sundays, Good Friday, and Christmas Day, and occasionally for cleaning.

Students are admitted generally to the several Departments on weekdays, from 10 till 4 or 5 o'clock; and to the Sculpture Galleries from 9 o'clock till the hour of closing.

British Museum,
1 April 1915.

Frederic G. Kenyon,
Director and Principal Librarian.

B.—Persons admitted to view the Collections in the British Museum (Natural History), Cromwell Road, in each Year from 1909 to 1914, inclusive.

	1909.		1910.		1911.		1912.		1913.		1914.	
	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.	Week-days.	Sun-days.
January	33,756	4,269	34,759	3,561	34,294	2,836	31,122	3,115	30,789	2,923	30,067	3,233
February	25,852	4,163	29,426	4,063	26,541	4,537	26,931	3,904	25,439	3,529	27,762	4,404
March	29,153	5,053	49,982	6,044	32,140	5,514	*22,719	*4,558	54,532	5,674	31,344	5,863
April	56,355	5,223	37,069	5,567	40,147	5,956	48,102	3,665	34,400	5,032	41,188	3,688
May	36,630	5,969	31,634	5,371	28,669	4,880	34,473	3,641	39,844	4,130	28,847	5,874
June	42,446	8,117	35,308	4,133	35,803	6,068	30,504	5,310	32,135	4,368	39,074	4,009
July	46,808	5,275	42,507	7,292	31,080	4,514	31,967	3,570	36,993	5,099	31,790	4,317
August	58,812	6,244	52,668	5,629	39,177	3,528	59,729	6,192	51,478	6,372	29,860	3,589
September	40,239	5,642	36,376	5,225	26,981	4,594	34,451	6,170	33,949	4,611	26,368	3,033
October	39,650	6.061	33,737	5,558	30,652	5,871	31,244	4,158	32,185	4,298	31,351	3,271
November	32,856	2,784	36,549	2,855	28,150	3,458	25,453	3,236	27,820	4,487	27,130	3,402
December	31,094	2,665	37,789	2,460	27,957	2,937	28,153	3,246	33,455	2,778	29,173	2,277
Total Number of Persons admitted to view the Natural History Collections (including students)	473,651	61,465	457,804	57,758	380,991	54,693	404,848	50,765	433,019	53,301	373,954	46,960
	535,116		515,562		435,684		455,613		486,320		420,914	

Number of Visits to Particular Departments for the purpose of Study.

	1909.	1910.	1911.	1912.	1913.	1914.
Zoology (including Art students)	11,461	12,443	12,175	12,564	9,982	9,235
Entomology	—	—	—	—	4,837	4,284
Geology	5,057	4,996	6,038	5,974	5,613	4,962
Mineralogy†	833	850	682	1,415	641	717
Botany	2,712	3,009	3,084	3,962	3,455	3,164
Total	20,068	21,298	21,979	23,915	24,528	22,362

* The Museum was closed from March 5 to 10 inclusive.

† Study series directly accessible to the public, and so labelled as to render reference to the staff almost unnecessary, have been arranged in this Department.

The Exhibition Galleries of the British Museum (Natural History), Cromwell Road, South Kensington, including the Departments of Zoology, Entomology, Geology and Palæontology, Mineralogy, and Botany, are open to the public, free, daily, except Good Friday and Christmas Day, and days of Public Fast or Thanksgiving.

The hours of Admission are as under:—

On WEEKDAYS, throughout the year	from	10 a.m.,	in	
January and February	to	5	p.m.	
March	„	5.30	„	
April to August	„	6	„	
September	„	5.30	„	
October, November, and December	„	5	„	

also, on MONDAYS and SATURDAYS only, from the beginning of May to the middle of July, to 8 p.m., and from the middle of July to the end of August, to 7 p.m.

On SUNDAYS, in				
January	from	2	to	4 p.m.
February 1st to 14th	„	2	„	4.30 „
February 15th to end	„	2	„	5 „
March	„	2	„	5.30 „
April	„	2	„	6 „
May to August	„	2.30	„	7 „
September	„	2	„	5.30 „
October	„	2	„	5 „
November and December	„	2	„	4 „

Persons are admitted to study in these Departments every weekday from 10 till 4 o'clock.

British Museum (Natural History),
27 February, 1915.

L. Fletcher,
Director of the Natural History Departments.

VIII.—GENERAL PROGRESS AT THE MUSEUM, BLOOMSBURY.

The figures of attendances at the Museum during the year 1914 were naturally affected very materially by the war. Up to the end of June the number of visitors showed a considerable advance (amounting to over 31,000) even on the exceptionally high figures of 1913. In August and September, however, there was a falling off of more than 100,000, and considerable reductions in each of the following months, with the result that the year closed with a total of 814,517 visits, or 132,573 less than in 1913, though still in excess of all the years from 1905 to 1912 inclusive.

The visits of students to particular Departments likewise show reductions in nearly every instance, though to a less marked extent. The visitors to the Reading Room numbered 224,560, as against 243,659, those to the Newspaper Room 16,704, as against 17,938, and those to the Students' Rooms of the other Departments 31,949, as against 37,788. The only item which shows an increase is the number of students working in the Sculpture Galleries.

Owing to the continuous and increasing demand for the services of the official guide-lecturer, a second guide was appointed provisionally in May, and his appointment was made permanent in November. The number of persons attending the guides' lectures during the year was approximately 20,300.

The extension building, officially known as King Edward the Seventh's Galleries, was opened to the public on May 7th, by His Majesty the King, accompanied by Her Majesty the Queen and H.R.H. Princess Mary, in the presence of more than 800 invited guests, including the Trustees and their friends, Members of the Diplomatic Corps, representatives of Government Departments and other distinguished persons, benefactors of the Museum, and past and present members of the Museum staff, both at Bloomsbury and at the Natural History Museum. A bust of H.M. King Edward VII. was unveiled by H.M. the King, and His Majesty was graciously pleased to declare the building open. Their Majesties then proceded to view the new exhibition galleries, which were also visited in the afternoon by a large number of invited guests, and were thrown open to the public on the following day.

The new building contains five floors, of which one and the greater part of another are exhibition galleries, while the others are devoted to working rooms for the staff and for students, and to purposes of storage. The Department of Prints and Drawings has its exhibition gallery and Students' Room on the upper floor, and its working rooms in part of the floor below, the remainder of which is assigned to a Students' Room for the Department of British and Mediæval Antiquities, and to the storage and study of Maps and Music. The Ground Floor Gallery was occupied during 1914 by an exhibition of the paintings, manuscripts, and miscellaneous antiquities brought from Central Asia by Sir Aurel Stein, but will eventually contain the Glass, Ceramic, and Mediæval collections. The Sub-Ground Floor will contain the office for the receipt of publications under the Copyright Act, the Newspaper Students' Room, and the storage of newspapers; while the Basement is available for purposes of storage, especially of printed books. The block of building which forms the connection between King Edward the Seventh's Galleries and the rest of the Museum contains on the ground floor a supplementary Reading Room, and on the upper floor working rooms and an additional exhibition gallery for the Department of Egyptian and Assyrian Antiquities.

The process of transferring the collections from the old building to the new, and of re-arranging the galleries in the old building thus vacated has been greatly delayed, first by the dispute in the building trade in the early months of 1914, and secondly by the outbreak of war.

The war has affected the Museum in many ways. Over 60 members of the staff at Bloomsbury, and over 30 of those at the Natural History Museum, have taken service in the naval or military forces of the Crown. Others have been attached to the War Office and the Foreign Office for special duty, while many of those who could not be accepted or granted leave for active service have joined various voluntary organisations for military, protective, or hospital work. Special precautions have been taken to protect the collections in the event of raids by hostile aircraft. At an early stage in the war a large number of the more portable objects of special value were removed to positions of greater security in safes or in strong rooms, their places in the exhibition galleries being taken by objects of lesser value or by facsimiles. Additional measures, including the protection of certain objects which cannot safely be removed, have been taken since the close of the year to which this report relates.

The war has further affected the Museum by the reduction of the number of visitors, which involves a reduction in the receipts from the sale of publications, and by the lessening of correspondence, as well as visits, from foreign scholars. On the other hand the Museum has been much utilised by Belgian and French refugees, for whose benefit special lectures have been arranged by the official Guides.

Progress with official publications will be seriously delayed, both by the absence of members of the staff on military duty and by the inevitable curtailment of expenditure on such objects. In particular, the consideration of a scheme for a re-issue of the General Catalogue of Printed Books will have to be indefinitely postponed.

Outside the Museum, excavations were continued at Jerablus during the spring and early summer, with satisfactory results. A preliminary volume, giving an account of the site and reproductions of the principal monuments and inscriptions hitherto discovered, has been published. The continuance of this work is mainly due to the liberality of an anonymous benefactor, who has already contributed 5,000*l.* towards it, and has recently conveyed a further sum of 10,000*l.* to trustees to provide for its further progress. Excavations are now necessarily in abeyance, but there is no reason to suppose that the site or the antiquities discovered there have suffered since the outbreak of war. The disposition of the natives has always been friendly towards the British excavators, and they appear to have continued to safeguard the site.

The number of separate objects incorporated in the collections of the several Departments during the year 1914 is as follows:—

Printed Books:	
Books and Pamphlets	32,539
Serials and Parts of Volumes	71,831
Maps and Atlases	2,942
Music	12,391
Newspapers (single numbers)	231,882
Miscellaneous	8,734
Manuscripts and Seals	1,353
Oriental Printed Books and Manuscripts	4,626
Prints and Drawings	6,657
,, ,, (Oriental)	386
Egyptian and Assyrian Antiquities	5,454
Greek and Roman Antiquities	146
British and Mediæval Antiquities	3,072
Coins and Medals	3,090
Total	385,103

The most noteworthy of these accessions have been the Hazlitt bequest, which will ultimately provide a fund of about 10,000*l.* for the purchase of early English printed books; the printed books and manuscripts ,purchased at the Dunn sale; several large collections of Egyptian and Assyrian antiquities, inciuding a valuable bequest from H. F. B. Lynch, Esq.; and a selection from the remarkable find of Jacobean jewellery, of which the greater part is in the London Museum, presented by the Right Hon. Lewis Harcourt, M.P.

From the Dunn sale the Department of Printed Books acquired (with the assistance of friends) the Commentary of Servius on Virgil, printed at Florence in 1471, being the first book printed in that town, and a very fine volume; also 82 other volumes of incunabula which fill gaps in the Museum collections. Particulars of these will be found in the Departmental report below. The Department also acquired from the Chapter of Lincoln an interesting collection of musical works (chiefly madrigals, motets, etc., by Italian composers of the 16th and early 17th centuries). The most interesting among the remaining acquisitions of the Department is perhaps the sheet of four Indulgences, printed in Caxton type by Wynkyn de Worde in 1498.

The Department of Manuscripts has received, under the will of the late Lady Layard, as was briefly mentioned last year, the whole of the diplomatic papers and general correspondence of her husband, Sir A. H. Layard, G.C.B. In addition to the political importance of these papers (which will necessitate the withholding of certain portions from public access for some time, in accordance with the wishes of the Foreign Office), they contain a good deal of matter relating to the excavations which Layard, in his earlier days, conducted

at Nineveh on behalf of the British Museum. Another important correspondence is that of George Canning with J. Hookham Frere, consisting of 160 letters. Some illuminated MSS. were acquired at the Dunn sale, and some interesting state papers at the Hodgkin sale. One of the three known copies of an early draft of Sidney's "Arcadia" was purchased from the late Mr. B. Dobell; and a book of interesting associations is the copy of Pope's "Iliad," in six volumes, presented by the author to Gilbert White, and containing two pen-and-ink sketches of the latter, which are the only known portraits of him in existence. In addition, several valuable Greek papyri from Oxyrhynchus have been presented by the Egypt Exploration Fund; and two vellum Greek documents of the first century B.C., discovered in Western Media and hence of unique character and special palæographical interest, have been acquired by purchase. It should also be noted that the Department has received two deposits of exceptional interest, which, it is hoped, will be permanent. One consists of the journals and memoranda of the late Captain R. F. Scott during his South Pole expedition, including the diary of the final journey to and from the Pole up to the date of his death, which have been deposited in the Museum by Lady Scott; and the other of the musical autographs belonging to the Royal Philharmonic Society, including works by Beethoven, Haydn, Mendelssohn, Spohr, and other famous musicians.

The Department of Oriental Printed Books and Manuscripts has acquired by purchase a volume of Syriac theological writings, dated in the year 721, and several Arabic, Persian, and Turkish MSS., many of which are unique.

The Department of Prints and Drawings secured several very fine early German engravings, together with two exceptionally rare metal-cuts in the "dotted" style; also 95 etchings by Piranesi; two drawings by Whistler; an etching by Josef Israels, presented by J. C. J. Drucker, Esq.; and several interesting examples of contemporary etchings, lithographs, and woodcuts. In the Oriental section the principal acquisition was a Chinese painting of great antiquity, probably of the 11th century, which was purchased with the help of the National Art-Collections Fund and private benefactors.

The acquisitions of Egyptian and Assyrian antiquities have been very numerous, and include pre-dynastic objects from Upper Egypt, a granite statue of a chief, a portrait in sunk relief of Amen-hetep IV., a blue glazed coffin with figure inside it, a sandstone sarcophagus of the XIXth dynasty, 873 scarabs mostly of the Hyksos period, several bronze figures of gods, a large basin for libations, a fine black basalt head of one of the Ptolemies, a large stele in Meroïtic script, a tablet with an important list of early Babylonian kings, a hundred contract tablets of the first dynasty, a collection of over 3,000 early Babylonian tablets from Tell Lo, a foundation cylinder of Nabonidus, and many others, which are more fully set out in the Departmental report.

The Department of Greek and Roman Antiquities has secured several interesting bronzes, including a 5th century statuette of Hephæstus, and a remarkable bronze steelyard; an alabaster statuette of Aphrodite; a marble votive relief of Zeus of Labranda, from Caria, associated with the sculptures of the Mausoleum; a series of sculptures brought from Rome to England in the 18th century; a large amphora of Dipylon style, and a number of other vases.

The Department of British and Mediæval Antiquities received an important accession of arms and armour as the result of the labours of a committee appointed to report on the various collections in the armouries of the Tower, Woolwich, and elsewhere. The Byzantine Research Fund placed at the disposal of the Trustees all the results of its excavation of a Coptic site in Egypt. The gift of a selection from a remarkable "find" of Jacobean jewellery by the Right Hon. Lewis Harcourt has been mentioned above, and a fine English astrolabe of the 14th century was presented by Mr. Maurice Rosenheim. Another acquisition was a fine cameo of Queen Elizabeth. A Persian pottery bowl and cup was the gift of Mr. Van den Bergh, and a large Persian dish was acquired by purchase. The second portion of a large collection of ancient Peruvian pottery was also acquired in the course of the year; and among a large number of additions to the ethnographical collections the most noteworthy was an elaborately carved ivory tusk from Benin.

In the Department of Coins and Medals the principal accessions were a unique Paphlagonian coin of Attalos Epiphanes; an almost unique tetradrachm of Orodes II. of Parthia; a group of gold staters of Cyrene; an unique bronze coin of Carausius, and a selection of early English coins from the Carlyon-Britton collection; a selection of English coins of the 14th and 15th centuries from the Walters collection; a fine and unique medal by Simon Passe; and a very fine collection of over a thousand coins of the Frankish rulers of Athens and Achaia and of the semi-bracteate coins of Switzerland, presented by Mr. Maurice Rosenheim.

The special Parliamentary grant for the assistance of Schools of Art has been devoted to the supply of (1) casts of ancient sculpture, (2) facsimiles of illuminated manuscripts, (3) electrotypes of Italian Renaissance medals. Gifts of official publications have also been made to many local libraries and museums.

The following are the publications issued by the Departments at Bloomsbury during the year:—

Hieroglyphic Texts from Egyptian Stelæ, &c., in the British Museum. Part V. 50 plates. Folio. 7*s.* 6*d.*

Wall Decorations of Egyptian Tombs. Illustrated from examples in the British Museum. With 8 plates and descriptive letterpress. 5*s.*

Carchemish. Report on the Excavations at Djerabis on behalf of the British Museum, conducted by C. Leonard Woolley,

M.A., and T. E. Lawrence, B.A. Part I. Introductory, by D. G. Hogarth, M.A., F.B.A. With frontispiece and 27 plates. 4to. 15*s.*

Cuneiform Texts from Babylonian Tablets, &c., in the British Museum. Part XXXIV. 50 plates. Folio. 7*s.* 6*d.*

Catalogue of the Cuneiform Tablets in the Kouyunjik Collection of the British Museum. Supplement. By L. W. King. With 6 collotype plates. 4to. 1*l.*

Catalogue of the Greek and Roman Lamps in the British Museum. By H. B. Walters, M.A., F.S.A. With 43 plates and 352 illustrations in the text. 8vo. 18*s.* 6*d.*

Catalogue of the Greek Coins of Palestine (Galilee, Samaria, and Judæa). By G. F. Hill, M.A. With one map, a table of the Hebrew alphabet, and 42 plates. 8vo. 1*l.* 10*s.*

Catalogue of the Coins of the Gupta Dynasties and of Sasanka, King of Gauda. By John Allan, M.A. With 24 plates. 8vo. 1*l.* 5*s.*

Catalogue of the Musical Manuscripts deposited on loan in the British Museum by the Royal Philharmonic Society of London. 8vo. 6*d.*

Schools of Illumination. Reproductions from Manuscripts in the British Museum. Part I. Hiberno-Saxon and Early English School, A.D. 700–1100. 16 plates. Folio. 17*s.* 6*d.*

Coptic Martyrdoms, &c., in the Dialect of Upper Egypt. Edited, with English translations, by E. A. Wallis Budge, M.A., Litt.D. With 32 plates. 8vo. 17*s.* 6*d.*

Catalogue of Engraved British Portraits preserved in the Department of Prints and Drawings in the British Museum. By Freeman O'Donoghue, F.S.A. Vol. IV. (S–Z). 8vo. 1*l.* 2*s.* 6*d.*

The Buildings of the British Museum, illustrated from Prints and Drawings. Prepared by order of the Trustees on the occasion of the Opening of King Edward the Seventh's Galleries, May 1914. 25 plates. Folio. 2*l.*

Summary Guide to the Exhibition Galleries of the British Museum. With plans and illustrations. 8vo. 2*d.*

Guide to an Exhibition of Paintings, Manuscripts, and other Archæological Objects collected by Sir Aurel Stein, K.C.I.E., in Chinese Turkestan. 8vo. 4*d.*

Guide to an Exhibition of Drawings and Sketches by Old Masters and by Artists of the British School acquired between 1912 and 1914. 8vo. 3*d.*

Guide to an Exhibition of Japanese and Chinese Paintings, principally from the Arthur Morrison Collection. 8vo. 2*d.*

Guide to an Exhibition of Woodcuts and Metalcuts of the XVth century, chiefly of the German School. 8vo. 4*d.* 4to. with 48 plates. 7*s.* 6*d.*

Guide to the Processes and Schools of Engraving represented in the Exhibition of Select Prints, with notes on some of the most important masters. 8vo. 3*d*.

Various reproductions have been put on sale singly or collected in volumes, viz. :—

Greek Marbles and Bronzes. 50 plates. Photogravure. 1*l*.
Egyptian Sculptures. 54 plates. Photogravure. 1*l*. 5*s*.
Assyrian Sculptures. 53 plates. Collotype. 1*l* 5*s*.

British Museum,
1 April 1915.

Frederic G. Kenyon,
Director and Principal Librarian.

IX.—PROGRESS made in the ARRANGEMENT AND DESCRIPTION OF THE COLLECTIONS, AND ACCOUNT OF OBJECTS ADDED TO THEM in the Year 1914 (Bloomsbury).

DEPARTMENT OF PRINTED BOOKS.

I. *Arrangement.*—The works added to the collection during the past year have, as far as possible, been placed on the shelves of the Library according to the system of classification adopted in the Museum.

The press-marks, indicating their respective localities, have been marked on the inside and affixed to the back of each volume.

The total number of these press-marks amounts to 75,603; in addition to which 91,566 press-marks have been altered, on books and in the catalogues, in consequence of changes and re-arrangements carried out in the Library; 28,650 labels have been affixed to books and volumes of newspapers, and 113,904 obliterated labels have been renewed.

The number of stamps impressed upon articles received is 539,856.

4,525 presses of books and newspapers have been dusted in the course of the year.

II. *Catalogues.—Cataloguing.*—42,063 titles have been written for the General Catalogue and for the Catalogues of Maps and Music.

Printing.—41,856 titles and index-slips for the General Catalogue, and 16,041 for the Music Catalogue, have been prepared for printing during the year; and 41,360 titles and index-slips for the General Catalogue. 1,917 for the Map Catalogue, and 12,901 for the Music Catalogue, have been printed.

Reprinting.—500 columns, including the headings America (77 columns), Honoré de Balzac (16 columns), Canada (67 columns), and United States of America (309 columns) have been revised and reprinted.

Incorporation.—General Catalogue.—41,777 title-slips and index-slips have been incorporated into each of the three copies of this Catalogue. This incorporation has rendered it necessary, in order to maintain as far as possible the alphabetical arrangement, to remove and re-insert 52,406 title-slips and index-slips in each copy and to add to each copy 576 new leaves.

The system of fortnightly incorporation of accessions to the Library has been carried out with perfect regularity during the year.

Map Catalogue.—2,851 titles have been written for this Catalogue, and 1,858 title-slips have been incorporated into each of three copies of it. This incorporation has rendered it necessary to remove and re-insert 1,459 title-slips in each copy and to add to each copy 22 new leaves.

Music Catalogue.—7,170 titles have been written for this Catalogue, and 10,768 title-slips have been incorporated into each of the two copies of it. This incorporation has rendered it necessary to remove and re-insert 10,973 title-slips in each copy and to add to each copy 160 new leaves.

Shelf Catalogue.—For this Catalogue, in which the title-slips, mounted on cards, are arranged in order of press-marks, 37,440 have been so mounted and 25,205 have been incorporated in their proper order.

Catalogue of Books printed in the XVth Century. — Progress has been made with Part IV. of this Catalogue, containing descriptions of the books printed at Subiaco, Rome, and Venice.

Handlist of Sale Catalogues.—A Handlist of Sale Catalogues, chiefly of booksales, has been in preparation during the year, and part of it is now in print.

III. *Binding.*—The number of volumes and sets of pamphlets sent to be bound in the course of the year was 17,115, including 4,891 volumes of newspapers. In consequence of the frequent adoption of the plan of binding two or more volumes in one, the number of volumes returned was 11,341. In addition to this, 475 volumes have been repaired in the binders' shops.

Besides this, the following binding work has been done in the Library itself:—4,204 volumes have been repaired, 11,630 cleaned and polished, and 3,183 volumes of reports, parts of periodicals, &c., have been bound in a light style of binding.

The following maps, charts, &c., have also been bound or mounted during the year:—20 atlases and 86 volumes of the 6-inch and 25-inch Ordnance Survey have been bound; in addition, 124 parts of the 1-inch Ordnance Survey and 181 general maps have been mounted on linen in 1,148 sheets, and 428 maps have been mounted on cards in 457 sheets.

46,621 numbers of Colonial Newspapers have been folded into 1,194 parcels, and 1,395 parcels have been tied up and labelled.

99 volumes of the General Catalogue have been broken up and re-bound in 164 volumes. 121 columns have been re-laid, owing to the accumulation of titles under certain headings, as well as 484 columns of reprinted headings, in each of the three interleaved copies of the General Catalogue. 18 volumes of the Music Catalogue have been re-bound in 19 new volumes.

IV. *Reading Room Service.*—The number of volumes replaced in the General Library after use in the Reading Room

was 751,279; in the King's Library, 22,079; in the Grenville Library, 3,364; in the Map Room, 5,529; in the presses in which books are kept from day to day for the use of readers, 689,142; and in the Oriental Department, 3,042; making a total amount of 1,474,435 volumes supplied to readers during the year, exclusive of those to which the readers have personal access on the shelves of the Reading Room.

The number of readers during the year was 224,560, giving an average of 741 daily, the room having been open 303 days, with an average of more than six volumes daily for each reader.

Newspaper Room.—The number of readers during the year was 16,704, giving a daily average of over 55, the room having been open on 303 days. The number of volumes replaced after use was 52,099, giving a daily average of 172, and of over three volumes for each reader, not reckoning volumes, chiefly Parliamentary Papers, taken from the shelves of the Newspaper Room by the readers themselves. In addition, 1,840 country newspapers were brought up to the Library from the Repository at Hendon for the use of readers.

Map Room.—400 visitors were admitted to the Map Room for the purpose of special geographical research.

Photography.—There were 424 applications for leave to photograph from books in the Library, and 1,093 volumes were supplied to the applicants for this purpose.

V. *Accessions.—General Library.*—32,539 complete volumes and pamphlets have been added to the General Library in the course of the year. Of these, 5,560 were presented; 16,194 were received by Copyright; 529 by Colonial Copyright; 1,159 by International Exchange; and 9,097 acquired by purchase.

71,831 parts or volumes of magazines and other serial publications and of works in progress have been added to the General Library. Of these, 4,877 were presented; 47,685 received by Copyright; 517 by Colonial Copyright; 2,193 by International Exchange; and 16,559 acquired by purchase.

Maps.—131 atlases, 113 parts of atlases, and 2,698 maps in 6,328 sheets have been added to the collection during the year. Of these, 10 atlases, 31 parts of atlases, and 492 maps were presented; 52 atlases and 1,915 maps received by Copyright; 45 atlases and 51 maps by Colonial Copyright; and 24 atlases, 82 parts of atlases, and 240 maps acquired by purchase.

Music.—12,391 musical publications have been added to the collection during the year. Of these, 20 books and pieces were presented; 10,298 books and pieces and 1,138 parts were received by Copyright; 594 pieces by Colonial Copyright; and 59 books and 282 parts acquired by purchase.

Newspapers.—The number of newspapers published in the United Kingdom, received under the provisions of the Copyright Act during the year, was 3,495, comprising 231,882

single numbers. Of these newspapers, 1,306 were published in London and its suburbs; 1,647 in other parts of England and Wales and in the Channel Islands; 302 in Scotland; and 240 in Ireland. Fourteen sets, comprising 2,607 single numbers, were received by Colonial Copyright; 310 sets, comprising 39,482 single numbers, of colonial and foreign newspapers have been presented; and 88 sets, comprising 24 volumes and 13,333 single numbers, of current colonial and foreign newspapers have been purchased.

Miscellaneous.—8,734 articles not included in the foregoing paragraphs have been received in the Department. These consist of Parliamentary Papers, single sheets, and other miscellaneous items.

The total number of articles enumerated above as having been received in the Department during the year, exclusive of newspapers, is 128,437.

Acquisitions of Special Interest.—The following is a list of the most important and interesting books acquired by purchase during the year. It includes purchases from the second portion of the Dunn sale, from the fourth portion of the Huth Sale, and from the Pearson sale.

Foreign Books.

Guido de Monte Rocherii. Manipulus curatorum. Beyamus and Glim, Savigliano [about 1471]. One of five books printed at Savigliano, probably the first. (Dunn copy.)

Bartolus de Saxoferrato. Lectura super i & ii partes Codicis. Sixtus Riessinger, Naples [1471]. Probably the first book printed at Naples. (Dunn copy.)

Servius. Commentarius in Vergilium. Cennini, Florence, 1471. The first book printed at Florence. (Dunn copy.)

Donations of 100*l.* each were given by two friends of the Museum towards the purchase of this book.

Boccaccio. Filocolo. G. di Pietro, Venice, 1472.

Augustinus. De mirabilibus Sacrae Scripturae. Ketelaer and Lumpt, Utrecht [about 1473]. One of the earliest books printed at Utrecht. (Dunn copy.)

Varro. De Lingua Latina. Sachsel and Golsch, Rome [about 1474].

Datus. Elegantiolae Latini Sermonis [about 1475]. Attributed to the press of L. Palmart, Valentia, the first set up in Spain. (Dunn copy.)

Breviarium Ratisponense. J. Pfeyl, Bamberg, 1475. A fine copy of a very magnificent book. (Dunn copy.)

Leonicenus. De octo partibus orationis. J. P. de Lignamine, Rome, 1475

Breviarium Hospitalis S. Johannis Hierosolymitani. Mainz [about 1476]. (Dunn copy.)

Ovidius. Metamorphoses and Fasti. Brothers of the Common Life, Rostock [about 1476]. Two important additions to the representation of this interesting press. (Dunn copies.)

Pontanus. Singularia. M. Huss, Toulouse [about 1476]. One of the earliest Toulouse books. (Dunn copy.)

Valla. Elegantiae. H. Alding, Naples, 1477. (Dunn copy.)

Jacobus de Erfordia. De contractibus. Attributed to Neumeister, Albi [about 1480]. In a fine Gothic type. (Dunn copy.)

Würzburg Missal. G. Reyser, Würzburg, 1481.

Cordiale. Louis Cruse, Geneva [about 1485]. A very rare work. (Dunn copy.)

Guido Vincentinus de Pileo. Margarita ad retinendum memorie omnia capitula S. Scripture [about 1485]. Probably printed in Spain. (Dunn copy.)

Boethius. De disciplina Scholarium. G. Le Roy, Lyons, 1486. With MS. notes by William Drummond of Hawthornden. (Dunn copy.)

Itinerarium Beatissime Virginis Marie. L. Ysenhut [Basle, about 1489]. In a fine binding by Niedrée. (Huth copy.)

Catholicum Parvum [about 1490]. A Latin-French dictionary of philological as well as typographical interest. (Dunn copy.)

Bartolus de Saxoferrato. Tractatus judiciorum. H. Mayer, Toulouse [about 1490]. (Dunn copy.)

Quiricus de Augustis. Lumen Apotecariorum. P. Maufer, Cremona, 1494. From a press hitherto unrepresented in the Museum collection. (Dunn copy.)

Angelus de Clavasio. Summa Angelica. J. Le Bourgeois, Rouen, 1495. No other specimen of this type in the Museum collection. (Dunn copy.)

Gregorius Ariminensis. Quaestiones. Valentia, 1500.

Also the following later foreign books :—

Missale Maguntinense. J. Schöffer, Mentz, 1513.

Coustumes du Mayne. Paris, 1535.

Moustiers. Des estats et maisons de la Chrestienté. Paris, 1549.

Taillemont. Discours des Champs. Lyons, 1553.

Stevin. De Thiende. Leyden, 1585. The first systematic treatment of decimal fractions.

Pitiscus. Canon Sinuum. Frankfort, 1613. The first really accurate astronomical tables.

Castillo Solorzano. La Foyne de Seville. Paris, 1661

English Books.

Two copies of each of two issues of an "Indulgence," printed on one sheet. Wynkyn de Worde, 1498.

The Boke of Surveying. R. Redman [about 1535].

Acte for kepynge of milche kyen. 1555.

Psalter. J. White [about 1560].

Lyly. Euphues. T. East for G. Cawood, 1587–88. (Huth copy.)

Charles Gibbon. A work worth the reading. T. Orwin, 1591. Only one other copy recorded.

Chapman. Ovid's Banquet of Sence. R. Smith, 1595.

Munday. A true knowledge of a man's own self. (From the French of Du Plessis Mornay.) I. R. for W. Leake, 1602.

Norden. A Pensive Man's Practice. 1610.

Taylor, the Water Poet. The Nipping or Snipping of Abuses. E. Griffin, 1614.

Webster. The most pleasant historie of Curan. B. Alsop, 1617.

Greene. Thieves falling out. For Henry Bell, 1617.

Ford. The Famous History of Parismus, 1636.

Bunyan. I will pray with the Spirit. Second edition, 1663. No copy of the first and no other copy of this edition is recorded.

Cardinal Mazarin. Last Will and Testament. P. Lillicup, 1663. In a fine binding by Bedford.

Maps.

Cosmographie Blaviane. J. Blaeu, Amsterdam, 1663. A fine copy of the French edition of Blaeu's "Atlas Major" in twelve large folio volumes.

A map of part of Dutch Guyana. W. Faden, London, 1804. An important map of the Dutch Settlements in South America, showing the produce of the country.

The United States of North America, &c. A series of six "Treaty Maps," showing the boundaries between the United States and Canada from 1783 to 1841.

Music.

The purchases of music have been unusually important. Chief among them was the acquisition of a collection of 158 part-books of madrigals. motets, psalms, &c. published in England, the Netherlands or Italy between 1565 and 1620. Among the many rarities in this collection especial mention may be made of the Tenor, Quintus and Sextus parts of Cosyn's Psalms (London, 1585) and complete sets of the "Cantica Sacra" for six voices (Antwerp, 1618) and the "Canzonette" (Antwerp, 1620) of Richard Dering. Other rare works acquired

are: The Tenor-part of the "Moteti de la Simia," printed at Ferrara in 1539; a complete set of Book II. of Gastoldi's Psalms for 6 voices (Venice, 1607); a copy of Georg Muffat's rare and important "Apparatus Musico-Organisticus" (Vienna, 1690); a complete set of the "Sinfonie da Chiesa, op. 2" of Francesco Manfredini (Bologna, 1709); Francesco Soriano's "Canoni sopra l'Ave Maria" (Rome, 1610); Frescobaldi's "Canzoni alla Francese" (Venice, 1645); and several single part-books of madrigals which completed imperfect sets already in the library.

Donations.

The following is a list of the more important donations received during the year :—

Catalogue of a Collection of Early German books in the Library of C. Fairfax Murray. *Presented by C. Fairfax Murray, Esq.*

Monumenti Vaticani di Paleografia Musicale Latina, Testo & Tavole. Raccolti ed Illustrati da Enrico Marriott Bannister, M.A., 1913. *Presented by the Vatican Library, Rome.*

Catalogue of a Collection of Miniatures belonging to H.R.H. the Duke of Cumberland, K.G. *Presented by H.R.H. The Duke of Cumberland, K.G.*

Mr. J. W. Croker's own copy of the Manuscript Catalogue of Works relating to the French Revolution. *Presented by W. D. Weaver, Esq.*

The Edmondes Papers, Edited by Geoffrey G. Butler, Printed for the Roxburghe Club, 1913. *Presented by the Roxburghe Club.*

A Catalogue of the Books and Manuscripts of Robert Louis Stevenson in the Library of the late Harry E. Widener, 1913. *Presented by A. S. W. Rosenbach, Esq.*

Temples and Images, principally in Eastern India, by E. A. S. T., 1905, 2 vols. *Presented by Sir H. Evan M. James.*

Catalogue of the printed books in the Library of the Honourable Society of the Middle Temple, by C. E. A. Bedwell. Vols. 1–3, 1914. *Presented by the Society of the Middle Temple.*

Extracts from Journals, 1880–1895. *Presented by Viscount Esher.*

Catalogue of Twenty Renaissance Tapestries from the collection of J. Pierpont Morgan, compiled by Seymour de Ricci. *Presented by J. Pierpont Morgan, Esq*

Copies of Proclamations and Orders in Council, 1901 to 1914. *Presented by the Clerk of the Council, Privy Council Office.*

G. F. Barwick.

Department of Manuscripts.

1. *Catalogue of Additions.*—The following MSS. acquired in 1912 have been described and indexed: Additional 38521, 38527, 38528, 38603, 38604, 38618, 38619, 38643–38645.

Of those acquired in 1913, Additional 38652, 38654, 38671, 38692, 38703–38713, 38720–38724, 38727, 38734–38775, 38777–38781, 38783–38789, 38792–38795, and Egerton 2906, and of those acquired in 1914, Additional 38796–38806, 38809, 38810, 38812–38820, 38823–38825, 38831–38837, 38839, 38843–38864 have been described and indexed.

The descriptions of Additional MSS. acquired in 1912 have been printed.

2. *Catalogue of Greek Papyri.*—In preparation of Vol. V. of the Catalogue, 1718–1808 (catalogue-numbers) have been revised, and introductions and commentaries written to them; 1809–1910 have been described; 1647–1769 have been finally revised for press. Sheets B—D have been printed off.

3. *Catalogue of the Royal MSS.*—Descriptions of 20 B. VII —end of Appendix have been revised and sent to press. Sheet ZZ of Vol. II. has been revised, and Sheets 3 A–3 E (completing the Royal Appendix) are in print.

4. *Catalogue of Irish MSS.*—The following MSS. have been described:—Additional 17847, 18746, 18747, 18749, 18945–18948, 18954, 31874, 31876, 31877, 33196, 34119; and Egerton 106, 110, 114, 118, 128, 133, 135, 139, 140, 145, 147–150, 156, 158, 162, 164, 165, 171, 172, 174, 179–185, 188–193, 196–198, 208, 211, 662, 663.

5. *Catalogue of Charters.*—Additional Charters 57035–57360, acquired in 1912, have been described and indexed.

6. *Binding.*—One hundred and sixty-seven Additional MSS. newly acquired and one hundred and fifty-two MSS. of the old collections have been bound, repaired, or lettered, together with two hundred and seventy-eight pieces of Papyri and one hundred and eighty-one Books of Reference, volumes of Facsimiles, and Catalogues. One Charter has been repaired.

7. *Verification.*—The entire collection of MSS. has been verified by comparison with the Shelf-Lists.

8. *Reproductions.* — Part I. (Hiberno-Saxon and Early English) of the Schools of Illumination has been completed and issued, and Part II. (English, 12th and 13th centuries) is in preparation.

Part I. of a reduced facsimile of the Codex Alexandrinus (Old Testament) is in progress; ff. 1–164b have been passed.

The introduction by Sir George Warner to the facsimiles from the Lindisfarne Gospels is in preparation.

9. *Stamping, folioing, and placing.*—Two hundred and seven Additional MSS., four Egerton MSS., two Royal MSS.,

eighteen hundred and thirty-nine Charters and Rolls, and two hundred and four Books of Reference have been stamped. The total of impressions made was 12,293.

Two hundred and eleven MSS. have been folioed, with a total of 33,765 folios. Three hundred and fourteen sheets have been numbered.

One hundred and seventy-six newly acquired MSS. and three hundred and seventeen Papyri have been placed. All have been press-marked and entered in Hand- and Shelf-Lists.

Six hundred and seventy-seven Charters and Rolls have been placed and have been entered in the Hand-Lists. Numbers have been written on seven hundred and forty-six newly acquired Charters. Seventy-eight Seals and Casts have been provided with boxes, placed, and entered in Hand- and Drawer-Lists.

10. *Books of Reference.* — One hundred and eighty volumes and parts have been received, catalogued, and placed.

Eighteen volumes and parts of Facsimiles were added to the series now deposited in the Department and available for the use of Readers.

11. *Consultation of MSS.*—27,947 MSS. and 2,106 Charters and Seals have been consulted in the Students' Room, and thirty-four MSS. in the Reading Room. The number of Students was 19,277.

Magna Charta was exhibited to 16,400 visitors.

12. *MSS. photographed.*—Seven hundred and sixty-five MSS. (including Papyri, Charters, and Seals) were allowed to be photographed, with a total of 6,633 photographs taken, of which 688 were for official purposes.

13. *Acquisitions.*—The number of Manuscripts and Documents, &c. acquired during the year has been:—

Additional MSS.	373
Egerton MSS.	2
Charters and Rolls	860
Papyri	37
Detached Seals and Casts	81

The most considerable addition to the collections results from a bequest, briefly mentioned in the last report, from the late Lady Layard, widow of Sir Austen Henry Layard, G.C.B., of her husband's Diplomatic Papers and General Correspondence. This has now been arranged in 234 volumes, but certain portions will not, for some time to come, be available for public use without special permission. A collection of about 160 letters of George Canning to J. Hookham Frere, acquired by purchase, forms, in conjunction with the Huskisson Papers acquired last year and other correspondence already in the Museum, a most valuable series for the history of Canning's career. A bequest of 16 volumes of selected private correspondence has been accepted under the terms of the will of the late William Carew Hazlitt. The dispersal of the late Mr. J

Eliot Hodgkin's extensive collection of historical autographs and papers gave opportunity for the purchase of a useful selection of documents, which are now arranged (except the charters) in twelve volumes. Among them are original state documents of Edward III. and Edward IV., an original letter signed by Melancthon and other leading reformers, a holograph letter of Henri IV. (as King of Navarre) to James VI., original documents illustrative of Pepys' Diary and other military and naval papers of the 17th century, original letters of the Earl of Danby, including those for which he was impeached, letters of the later Stuarts, many letters illustrative of the changes in social conditions, &c.

Among acquisitions other than those noticed above are the following, many of which are due to the generosity of private donors (others have been purchased at the Dunn, Hodgkin, and Dowden sales), viz. :—

A collection of 36 Greek and Latin Papyri from Oxyrhynchus, including portions of the Ichneutae and Eurypylus of Sophocles (these two have been allotted to the Museum, but not yet actually delivered), the Meliambi of Cercidas, Phaedrus of Plato, some speeches of Cicero, and documents, both Greek and Latin, of interest. *Presented by the Egypt Exploration Fund.*

Two Greek vellum documents (title-deeds of a vineyard) of the 1st cent. B.C., recently found (with one document in an Aramaic script) in a dry cave in Western Media. The material and the part of the world from which they come give to these a unique palæographic interest.

Passio S. Pancracii, with neums, 10th–11th cent. *Presented by Mrs. Ambrose Heal.*

Miracles of Hexham saints, metrical summary of the Bible from Byland Abbey, and Foundation charters of St. Mary's, York : three 12th cent. MSS. bound together.

Beda's Historia Ecclesiastica, 12th cent. MS. from Kirkham Abbey, with a story of the invention of St. Ragnar at Northampton.

Palladius de Agricultura, Vitruvius, and Vegetius, 12th cent.

Two Latin Psalters written in England, 12th and 13th–14th centt. respectively.

Latin Bible, illuminated in Italy, 13th cent. *From the Bridgewater Fund.*

Proverbia Senecae, etc., MS. written at Tournai, 13th cent., with interesting early stamped leather binding.

Registrum Brevium, with notes for pleading in the local court at Lincoln, 13th cent.

Fragment (with 18 miniatures) of a fine but damaged MS. of the Apocalypse in French, executed perhaps in England in the 14th cent.

Terence, written in Italy, 1419. *From the Farnborough Fund.*

La Danse Macabre, 15th cent. French poem.

Epitaphium Missae, etc.; poems of the Reformation.

Horae of Paris use, with arms of the Dauphin, 16th cent.

La Nativité Nostre Sire Jesucrist, 19th cent. transcript of a rare French mystery play.

By transfer from the Department of Prints and Drawings the Department has acquired seven Italian and French miniatures of the 14th and 15th centt., chiefly from the Samuel Rogers Collection.

Commonplace-book of Sir Edward Hoby, of the end of the 16th cent., containing, among many interesting entries, instructions to British seamen sailing to America, 1582, as to observations to be made of the country, and other notes relating to colonisation.

Relazione d'Inghilterra e Scozia, 1606, by a secretary of Pietro Duodo, Venetian Ambassador.

Relazione of G. L. Durazzo, Genoese Ambassador to Charles II., 1662.

Three volumes of East India Company records, including lists of governors, 1658–1858, and of ships, 1653–1832.

Privy Council papers from the Southwell and Phillips collections, 1664–1714.

Register of Privy Seals passed by Sir E. Dering, 1669–1673.

Establishment-book of James II.'s household as Duke of York, 1682.

Household-book of the Earl of Powis, 1686–1700.

Account by J. Kakabelas of the siege of Vienna, 1683, in modern Greek.

Precedent-book of a Berkshire Justice of the Peace, 1710–1733.

Precedents of Royal letters, *temp.* George I.

Orders for a Venetian governor, 18th cent.

Naval signal-book, *circ.* 1790.

Naval commonplace-book, with signals, *circ.* 1797.

Diary of Lieut. James as a prisoner of war in France, 1804–1814.

Autograph letter of Gen. Picton, shortly before the campaign of Waterloo.

Autograph letter of Dr. (afterwards Sir) Alexander Armstrong, surgeon on the Franklin Relief Expedition, 1853. *Presented by Miss Sophie Simpson.*

Papers of Sir L. Mallet, relating to the commercial treaty with Austria, 1866.

Autograph letter of Queen Victoria to Lord Palmerston on the subject of his reports of Cabinet proceedings, 1856.

Original letter of Prince Bismarck, 1875, relating to the Scottish Covenant. *Presented by T. Ogilvie Smith, Esq.*

Parliamentary journals and character-sketches of statesmen, 1885–1895, by the late Sir Richard Temple. *Presented by Sir R. Carnac Temple, Bart.*

Autograph letters of Dr. Sun-Yat-Sen, relating to the Revolution in China, 1909–1910.

Sir Philip Sydney's Arcadia, MS. of the earlier form of the novel, never published in its integrity.

Pope's Iliad in 6 volumes, presented by the author to Gilbert White of Selborne, with inscriptions by and sketch-portraits of White.

William Hayley's memorials of his efforts to befriend William Cowper.

Sir William Congreve, A Second Century of Inventions. *Presented by the Royal Artillery Institution, Woolwich.*

MS. ballads in the hand of John Payne Collier, with alterations introduced by him before printing.

Autograph poems by Wordsworth ("Two voices are there"), Blanco White (Sonnet on Night and Death), and Walt Whitman ("O star of France").

Draft by E. J. Trelawny of his narrative of the cremation of Shelley and Williams. *Presented by Percy E. Williams and J. W. Williams, Esquires.*

Autograph letters of John and Charles Wesley, B. R. Haydon, Alfred Russel Wallace, Laurence Oliphant, Sir E. Burne-Jones, G. F. Watts, and others.

Guild-book of the Company of Smiths, &c. of Bridgnorth, 1598–1752.

Court-book of Poole, co. Dorset, 1616–1630.

Court-rolls of Shipton-on-Cherwell, co. Oxon., 1569–1659, and Abbotts Manor, Kensington, 1601–1611, and other manorial rolls.

Index-transcript of parish registers of Bramford, co. Suff. *Presented by Rev. Edw. Cookson.*

Marriages, extracted from parish registers of Barbados, 1643–1700.

Form of consecration of Dore church, co. Heref., 17th cent. *Presented by J. Wickham Legg, Esq., M.D.*

Map of Northstead manor, co. Kent, 1717.

Plans of ancient earthworks in several English and Welsh counties, by Rev. E. A. Downman.

118 charters, mostly dated, from Tournai, of the 13th and early 14th centt.

15 charters relating to Staffordshire, 1333–1446. *Presented by Mrs. Town Attree.*

57 charters, including many wills, 1539-1806. *Presented by L. A. Lawrence, Esq.*

About 150 charters, 16th–19th centt., relating to various English counties. *Presented by A. W. Marks, Esq.*

Minutes of the "Virtuosi of St. Luke," an artistic lottery society, 1698–1743.

Minutes of the Art Union of London, 1837–1847. *Presented by the Society.*

Correspondence of the St. Mark's, Venice, Committee, founded in 1880. *Presented by Henry Wallis, Esq., R.W.S.*

Facsimile of a Mexican MS. (Codex Rickards). *Presented by Miss A. Breton.*

"The Oeconomy of Human Life": a treatise written in shorthand by John Brown, 1778. *Presented by J. Sterry, Esq.*

"Internacional Proverbs," by the late Abbé Marchand, inventor of the artificial language "Dilpok." *Presented by T. G. Kyne, Esq.*

Viol sonatas by W. Young, transcribed from a rare edition at Upsala.

Litany by Domenico Feo and other music. *Presented by W. Barclay Squire, Esq.*

By the kindness of Lady Scott the Department has been able to place on exhibition in the Grenville Library the autograph Antartic journals of Captain R. F. Scott, R.N., 1910-1912. Among the pages shown are the record of his arrival at the South Pole and his last "Message to the Public."

The Department has also taken charge, on deposit, of a valuable collection of autograph and other music belonging to the Royal Philharmonic Society, including scores by Beethoven, Haydn, Mendelssohn, Spohr, Weber and others. A catalogue of this collection has been printed.

J. P. Gilson.

Department of Oriental Printed Books and MSS.

Arrangement and Cataloguing.—The numbers of the sheets of the various Oriental Catalogues and other publications of the Department which were sent to press in 1914 are:—Arabic Printed Books Catalogue, 6 sheets; Coptic Texts, vols. 4 and 5, 75 sheets; Hebrew MSS. Catalogue, 15 sheets; Marathi and Gujarati Printed Books Catalogue, 19 sheets.

The numbers of Titles written for the Catalogues are:—Arabic, 726; Armenian, 2; Assamese, 4; Avestan, 5; Bengali, 349; Burmese, 149; Chin, 3; Chinese, 1,884; Coptic, 10; Ethiopic, 1; Gujarati. 844; Hebrew, 393; Hindi, 335; Hindustani, 420; Kachin, 2; Kanarese, 140; Karen, 9; Kashmiri, 21; Kuvi, 2; Malayalam, 23; Manipuri, 2; Marathi, 298; Pahlavi, 27; Pali, 168; Panjabi, 98; Persian, 937; Prakrit, 40; Pushtu, 27; Sanskrit, 1,032; Savara, 2; Siamese, 7; Sindhi, 12; Sinhalese, 153; Syriac, 35; Talaing, 5; Tamil, 357; Telugu, 358; Tibetan, 21; Turkish, 22.

Forty-six Hebrew MSS. have been fully catalogued.

One hundred and sixty-seven short descriptions of MSS. have been entered in the Descriptive List, the Register, and the Classed Inventory.

One hundred and seventy-four MSS. (24,475 folios) have been folioed.

Publications.—A Catalogue of Burmese Printed Books and vol. 4 of the Series of Coptic Texts edited by Dr. E. A. Wallis Budge have been issued.

Binding.—The numbers of Printed Books and MSS. sent to the binders are:—Arabic, Hindustani, and Persian Books, 162; Chinese Books, 55; Hebrew Books, 95; Books in Sanskrit and other Indian languages, 233; MSS., 431.

Students.—The number of visits of Students working in the Students' Room attached to the Department during the year is 2,968. The number of Oriental Printed Books read by them in the Department is 12,968 (7,595 having been issued once only, and 5,373 reserved), and of those used in the Reading Room, 3,042. The number of Oriental MSS. read in the Students' Room is 7,191.

Photography.—Two hundred and eight applications have been made to photograph books and MSS. in this Department.

Additions.—The number of volumes, pamphlets, &c. added to the collections of the Department during the year is 4,626, of which 4,461 are Printed Books and 165 are MSS.

Of the Printed Books, 2,256 were bought; 1,349 were received under the India Copyright Act; 162 were received under the Colonial Copyright Acts from Ceylon and Hongkong; and 674 were presented. Of the MSS., 120 were bought and the remainder presented.

The MSS. are as follows :—

Arabic	83
Arabic and Persian	6
Arabic and Italian	1
Arabic, Persian, and Turkish	1
Hebrew	4
Hindustani and Persian	1
Italian and Hebrew	1
Karshuni	8
Persian	26
Prakrit and Gujarati	1
Prakrit and Sanskrit	1
Syriac	3
Syriac and Karshuni	2
Turkish	24
Turkish and Persian	3
Total	165

The most important acquisitions are :—

Arabic MSS.—1. Kitāb al-rijāl, alphabetically arranged lists of Shī'ah traditionists, by Abu Ja'far Muḥ. b. Ḥasan al-Ṭūsī (died A.H. 460). Copied A.H. 533 (A.D. 1139). 12°. Very rare.

2. Mukhtaṣar al-Ḳudūrī, a commentary by Aḥmad b. Muḥ. al-Baghdādī (died A.H. 474) on Ḳudūrī's manual of Ḥanafī law. Vol. ii., beginning with the Kitāb al-nikāḥ. Copied A.H. 537 (A.D. 1142). 4°. No other MS. appears to be on record.

3. Part of a large treatise on Traditions. Copied A.H. 611 (A.D. 1214). 4°.

4. Sharḥ i'rāb 'an ḳawā'id al-i'rāb, a commentary by Abu al-Ḥasan 'Alī b. A. al āḥidī al-Nīsābūrī on Ibn Hishām's manual of syntax. xii-xiiith century. 8°. No other copy seems to be recorded.

5. Part iii. of Al-Sam'ānī's Kitāb al-ansāb in the recension of Al-Shaibānī, with many marginal notes in the handwriting of Ibn Khallikān. xiiith century. 4°.

6. Vol. i. of Sharḥ al-sunna, a collection of Traditions by Al-Farrā al-Baghawī. xiiith century. 4°.

7. Another copy of the same. xivth century. 4°.

8 Al-'Aḳīdah, a Ḥanafī compendium of Islām by Abu Ja'far Aḥmad b. Muḥ. al-Ṭaḥāwī, with a commentary by Najm al-Dīn Abu Faḍā'il Mankburunī (?). Copied A.H. 708 (A.D. 1308). 4°. Rare.

9. Al-Kunyah fi al-fatāwi, a treatise on the doctrines of Abu Ḥanīfah, by Najm al-Dīn Mukhtār b. Maḥmūd al-Zāhidī. Copied A.H. 723 (A.D. 1323). 4°. The only other copies on record are in Constantinople.

10. A copious commentary on single words and phrases of the Koran, described in a note on a piece of paper attached to

the cover as the Kitāb al-fuṣūl wa'l-ghāyāt of Abu al-'Alā al-Ma'arrī. Copied A.H. 731 (A.D. 1330). 4°.

11. Ta'rīkh Iṣfahān, a history of Ispahan and notices of the most famous natives of that town, with poems in praise of it, &c., by Mufaḍḍal b. Sa'd al-Ḥusain al-Māfarrūkhī. Apparently this work was composed in its original form in A.H. 421, and was later expanded into the recension represented by this MS. Colophon dated A.H. 732 (A.D. 1332). 12°. Extremely rare.

12. Al-Ishārāt, Ibn Sīnā's manual of philosophy, with commentary by Naṣīr al-Dīn al-Ṭūsī. Copied A.H. 738 (A.D. 1337). 4°.

13. Sharḥ 'umdat al-'aḳā'id, a commentary on the 'Umdat al-'aḳā'id of Al-Nasafī, treating of the Sunnī tenets. Copied A.H. 782 (A.D. 1380). 12°. No other copy of this work appears to be on record.

14. A MS. containing (i) a Ḳaṣīdah by Muḥ. b. Mas'ūd, addressed to a vizier on his recovery from illness; (ii) the poems of 'Urwah b. al-Ḥizām; (iii) the poems of Al-Muthakkib, with a commentary. xivth century. 8°. Several of the verses of the last two poets, who are ancient and important, do not appear to be found in any other MS.

15. Tahdīb al-aḥkām, a work on the traditional basis and harmony of the authorities for Shī'ah jurisprudence, by Abu Ja'far Muḥ. b. al-Ḥasan al-Ṭūsī (died A.H. 459). Part iii. xivth century. 4°. Rare.

16. Kitāb badā'i' ifhām al-albāb, a work on abrogative and abrogated verses of the Koran, by Abu Muḥ. Ibrāhīm b. 'Umar al-Ja'barī. xiv-xvth century. 12°. No other copy seems to be on record.

17. A MS. containing (i) Kitāb faiṣal al-tafriḳah bain al-islām wa'l-zandaḳah, a refutation of gnosticism, by Al-Ghazzālī; (ii) 3 tracts, the second of which is ascribed to Al-Ghazzālī; (iii) Bustān al-'ārifīn, a work on Sufism and asceticism attributed to the same author. No. 2 copied A.H. 870 (A.D. 1465). 12°. Rare.

18. Vol. ii. of Durr al-anīs, a life of Imām Shāfi'ī, by Yūsuf b. Ḥasan 'Abd al-Hādī. The author's autograph, written in Damascus and finished A.H. 888 (A.D. 1483). 12°. No other copy of the work seems to be known.

19. Ta'rīkh al-Dimashḳ (Ta'rīkh al-Sha'm), a history of Damascus and Syria by Ibn 'Asākir. Two detached volumes, copied respectively in the xvii-xviiith and the xvth centuries. 4°. No other copies are known to be preserved in Europe.

20. Kitāb al-īmān wa'l-islām, a work on the fundamentals of Islām by Ibn Taimīyah. xvth century. 4°.

21. Naẓm al-jumān, biographies of Abu Ḥanīfah and the jurists of his school, by Ibrāhīm b. Muḥ. Ibn Dukmāḳ. Vol. iii, beginning with the life of Ibrāhīm b. Aḥmad al-Mausilī. xvth century. 4°. Rare.

22. Niswat al-'ābidāt, lives of famous Moslem women, by Taḳī al-Dīn Abu Bakr b. Muḥ. al-Ḥiṣni. xvth century. 12°. Rare.

23. Al-Mu'jizāt wa'l-khaṣā'iṣ, an account of the earlier propaganda of Muḥammad, his miracles, and his characteristics, by Al-Suyūṭī. xvith century. Fol.

24. Risālah fi ithbāt al-wājib, a Sufic tract by Jāmī. xviith century. 12°.

25. Kaukab al-raudah, a description of the island Al-Raud in Cairo, by Al-Suyūṭī, with a coloured plan of Cairo. Copied A.H. 1009 (A.D. 1600). 4°.

26. Collected poems of Muḥ. b. 'Umar al-Ḳudsī al-'Alamī (died A.H. 1038). Copied A.H. 1029 (A.D. 1619). 8°. No other equally extensive collection of this poet's works is on record.

27. Ṭabaḳāt al-'ulamā al-ḥanafīyah, lives of Ḥanafī jurists, by Kamāl Pāshā-zādah Aḥmad. Copied A.H. 1035 (A.D. 1625). 8°.

28. Glosses by Muḥ. b. Ḥusain Fakhr al-Dīn al-Ḥusainī on Al-Maibudī's commentary on Al-Abharī's Hidāyat al-ḥikmah. Copied A.H. 1058 (A.D. 1648). 8°. No other copy appears to be on record.

29. Dīwān or poems of Abu Bakr b. Ḥijjah al-Ḥamawī. Followed by part of the Dīwān of Ibrāhīm b. 'Alī Jamāl al-Dīn al-Mu'ammār. The former copied A.H. 1062 (A.D. 1651). 8°. Neither of these works appears to be on record.

30. Nūr al-thaḳalain, a Shī'ah commentary on the Koran, by 'Abd al-'Alī b. Jum'ah 'Arūsī Ḥuwaizī al-Shīrāzī. Vols. i–iv. Fol. Rare.

31. Asrār al-ṭālibīn, a tract on the religious life, attributed on the first page and flyleaf of this copy to Amīr Khusrau Dihlawī. xviith century. 8°. Very rare.

32. Majma' al-muhimmāt al-dīnīyah, a Ḥanafī work on the fundamentals of Islām, by Mulla Ḥusain b. Iskandar. xvii–xviiith century. 8°. Extremely rare.

33. Al-Nawāḳiḍ li-bunyān al-Rawāfiḍ, a polemical work against the Rāfiḍīs by Ashraf Mu'in al-Dīn Mīrzā Makhdūm al-Shīrāzī. xviiith century. 8°.

34. Ithār al-ḥaḳḳ, a treatise on Zaidī dogmatic theology, by Muḥ. b. Ibrāhīm Ibn al-Wazīr. Copied A.H. 1100 (A.D. 1688) 4°.

35. Ḳaṣīdah poems of 'Izz al-Dīn 'Abd al-Ḥamīd b. Abi al-Ḥadīd, with a commentary. Copied A.H. 1112 (A.D. 1700). 8°. No other copy appears to be on record.

36. Asrār al-anwār, a theological tract, by Al-Ghazzālī. xviiith century. 8. Very rare.

37. Nahj al-ḥaḳḳ, a polemic against the Sunnī tenets, by Ibn Muṭahhar al-Ḥillī. xviiith century. 8°. Rare.

38. Is'āf al-mubaṭṭa, alphabetical lists and brief biographies of traditionalists mentioned in Mālik's Muwaṭṭa, by Al-Suyūṭī. xviiith century. 8°. Only one other copy appears on record.

39. Kitāb al-ḥamāsah, a collection of ancient poems arranged in seven chapters according to subject; different from the Ḥamāsas of Al-Bukhturī and Abu Tammām. xviiith century. 12°.

40. Al-Risālah al-makkīyah, a treatise on Sufism, by 'Afīf al-Dīn 'Abd Allāh b. As'ad al-Yāfi'ī al-Shāfi'ī al-Tamīmī xviiith century. 8°. Very rare.

41. Sufic poems of 'Abd al-Ghani b. Ismā'īl al-Nablusī. xviiith century. 8°. Very rare.

42. A collection of tracts ascribed to Aristotle, Al-Fārābī, Yaḥya b. 'Adī, Avicenna, etc. xviiith century. 8°. Some of these seem to be very rare.

43. Asrār al-lughah, a vocabulary of words and phrases with explanations, by Aḥmad b. Muḥ. al-Iṣfahānī. xixth century. 8°. No other copy seems to be on record.

44. Mīzān al-'uḳūl, a manual of logic, by Muḥ. b. Yūnus al-Shuwai'ī. Copied A.H. 1221 (A.D. 1806). 8°. No other copy is on record.

45. A commentary by Abu Bakr Zakarīyā Yaḥya al-Tibrīzī (A.H. 421–502) on the Kitāb al-ikhtiyārāt or Mufaḍḍalīyāt, an anthology of ancient poetry compiled by Abu 'Abd al-Raḥmān al-Mufaḍḍal al-Ḍabbī (died A.H. 170), with the text of the latter This commentary was composed, according to the colophon, in A.H. 486; and the archetype of the present copy was written in the same year. xixth century. 8°. No other copy is recorded.

46. Nineteen MSS., chiefly of works of history and grammar, of which the most important are the following: (i) Akhbār al-duwal, a general history by Abu al-'Abbās Aḥmad b. Sinān al-Ḳaramānī; xviiith century; 8°; (ii) part of Kitāb al-rauḍatain, a history by Abu Shāmah of 'Imād al-Dīn Zinkī and his son Nūr al-Dīn, Atābaks of Mauṣil, and of Salāḥ al-Dīn, Sultan of Egypt and Syria; copied A.H. 675; fol.; (iii) Ḳurrat al-'uyūn, a history of Yemen to A.H. 923 by Ibn Daiba'; copied A.H. 1023; 8°; (iv) part of a history of Bagdad and the neighbouring country under Murād IV.; copied A.H. 1227; fol.; (v) a history of Oman, in 40 chapters; copied A.H. 1097; fol. *Presented by the widow of the late Colonel S. B. Miles.*

Arabic and Persian MS.—1. The Maḳāmāt of Al-Ḥarīrī, with an interlinear Persian translation of the greater part of the work, completed in A.H. 587. Copied A.H. 662 (A.D. 1263). Fol. This translation seems to be otherwise unknown.

Arabic and Italian MS.—1. Dialogues in Arabic with Italian translation, compiled by Giuseppe Carassi. Written at Malta in A.D. 1808. 12°.

Hebrew and Italian MS.—1. Matteh Dan, by Ḥaham David Nieto, in an Italian version. xviiith century. 8°. No other copy of this version is known.

Hindustani and Persian MS.—1. A Maṣnavi poem by Ḥasan ʻAlī Dihlavī. Early xixth century. 8°. Rare. *Presented by R. R. Steele, Esq.*

Karshuni MSS.—1. Seven MSS. on Christian doctrine and Bible exegesis. xviii–xixth centuries. *Presented by the widow of the late Colonel S. B. Miles.*

Karshuni and Syriac MS.—1. A liturgy of the Syrian Christians. xviiith century. 12°. *Presented by the widow of the late Colonel S. B. Miles.*

Persian MSS.—1. Al-Madkhal, a tract on the conjunctions of the planets, by Abu Maʻshar al-Balkhī; probably abridged from his Ḳirānāt. Copied A.H. 685 (A.D. 1286). 12°. Exceedingly rare.

2. Miʻyār ul-ṣidḳ, a work on Sufic mysticism, by Najm ul-Dīn Rāzī (Dāyah). Copied A.H. 772 (A.D. 1371). 12°.

3. A MS. containing three works on prosody, viz.: (i) an anonymous tract; (ii) Ḳivāmī's Ḳaṣīdah, with notes; (iii) Nuzhat ul-abṣār, by Faẓl Ullāh b. Muḥ. Shīrāzī. Copied A.H. 864 (A.D. 1460). 8°.

4. ʻAvārif ul-maʻārif, a treatise on Sufism, by Shihāb ul-Dīn al-Suhravardī, in a Persian translation by Ismāʻīl b. ʻAbd ul-Muʼmīn b. Abi Manṣūr al-Iṣfahānī. Elegantly written; copied A.H. 897 (A.D. 1492). 4°. No other copy of this version seems to be on record.

5. Discourses by Shaikh ʻAzīz ul-Dīn al-Nasafī on theology and Sufism. Copied A.H. 990 (A.D. 1582). 8°.

6. Gulshan i inshā, a treatise on epistolary style, originally written in Turkish for Bāyazid II. by Maḥmūd b. Adham, and thence done into Persian by Hāshimī. xvith century. 12°. Rare.

7. A collection of poems by a poet styling himself Jamālī, who is perhaps to be identified with Ḥāmid b. Faẓl Ullāh, commonly called Darvīsh Jamālī (died A.H. 942). xvith century. 12°. Apparently not recorded elsewhere.

8. Risālah fi kalimat ul-tauḥīd, a Sufic tract by Jāmī. xviith century. 12°.

9. A MS. containing the following works of Jami:—(i) Naḳd ul-nuṣūṣ, a commentary on Ibn ul-ʻArabī's Fuṣūṣ ul-ḥikm; (ii) Iṣbāt i vaḥdat ul-vujūd, a work on the unity of God; (iii) the Lavāʼiḥ; (iv) a commentary on two Ḳaṣīdahs of Ibn ul-Fāriẓ; (v) a commentary on ʻIrākī's Lamaʻāt. Copied A.H. 1014 (A.D. 1605). Fol.

10. Collected poems of Fīghānī and Humāyūn. xviith century. 12°.

11. An abridgment of Ḳazvīnī's 'Ajā'ib ul-makhlūḳāt, with numerous good sepia drawings in Indo-Persian style. xviith century. 4°.

12. Poems of Abu Turāb Beg (calling himself Kāmī, Firḳatī, and Kāshī). xviith century. 12°.

13. Rubā'īyāt of Muḥ. Ṣāliḥ (Kashfī). xviith century. 8°. No other copy seems to be recorded.

14. Astar-nāmah, a mystic maṣnavi poem. xviiith century. 12°. No other copy appears to be on record.

15. Manāḳib ul-auliyā, lives of famous Ṣufis. xviiith century. 8°.

16. An account of the capture of Haidarabad in A.H. 1030. Copied A.H. 1216 (A.D. 1801). 8°.

17. The collected poetical works of Ṭā'ir (Ḥasan Khān). xixth century. Fol. No other collection seems to be recorded.

18. Kulliyyāt i Darvīsh, the collected writings in prose and verse of Muḥ. Hāshim Darvīsh. xixth century. Fol. No other collection appears to be on record.

19. Four MSS., viz.:—(i) a volume containing odes of Ḥāfiẓ, lives of Muḥammad, Fāṭimah, and the Martyrs, and Shajarat ul-atrāk, a history of Chinghiz Khan, &c.; (ii) a Persian version of Ṭabarī's history; (iii) the Ta'rikh i Guzīdah; (iv) the Anvār i Suhailī. xvii–xixth centuries. *Presented by the widow of the late Colonel S. B. Miles.*

Syriac MSS.—1. Five MSS., comprising (i) four volumes on the doctrines and rituals of the Christian Church, and (ii) the shorter Grammar of Bar-Hebræus. xvith–xixth centuries. *Presented by the widow of the late Colonel S. B. Miles.*

2. Epistles, discourses, and other theological writings of Athanasius the Great, Basilius, Amphilochius, Proclus, Ephraem, John of Constantinople, Severianus, Leo, Felix, and Sophronius. Copied at Edessa in A.D. 721; vellum. Fol.

3. Fourteen fragments of MSS. of Biblical, liturgical, and homiletic literature, on vellum, the oldest being of the sixth century. Fol.

Turkish MSS.—1. A MS. containing (i) Gulshan i rāz, a mystic maṣnavi poem written for Murād II. by the Shaikh ul-Islām Dāsitāzī, and (ii) Risālah i gulshanī, a similar poem, written under Muḥammad II. Copied A.H. 925 (A.D. 1519). 12°. Rare.

2. 'Umdat ul-ḥisāb, a work on the law of inheritance, with problems formulated in arithmetical figures, by Naṣūḥ al-Salāḥī al-Maṭrāḳī. Copied A.H. 950 (A.D. 1543). 12°. No other copy seems to be recorded.

3. Poems (Dīvān) of Ḥairatī. Copied A.H. 961 (A.D. 1554). 8°.

4. Maḥmūdiyyah, a vocabulary with explanations by Firishtah Oglu. Copied A.H. 997 (A.D. 1588). 8°.

5. Muḳaddimah i Ḳuṭb ul-Dīn, a Ḥanafī catechism of Islām by Ḳuṭb ul-Dīn b. Muḥammad Nakīdī. xvith century. 4°.

6. Naẓā'ir ul-ash'ār, a collection of ghazals by about 200 poets, compiled and arranged according to metre by Naẓmi of Adrianople. xvith century. 8°.

7. Dīvān of Khayālī. xviith century. 8°.

8. Dīvān of Ṣānī. xviiith century. 8°. Complete Dīvāns of this poet seem to be exceedingly rare.

9. Kitāb i Ḥusain, poems on Ḥusain, by divers. xvii–xviiith century. 8°.

10. Taẓkirat ul-khaṭṭāṭiyyah, notices of calligraphers, by Nafsī Zādah. xviiith century. 8°.

11. A MS. containing three mystic writings, viz.:—Ganj ul-sālikīn; (ii) Asrār-nāmah of Ilāhī; and (iii) Ghazzālī's Kīmīyā i sa'ādat. xviiith century. 8°.

12. Two tracts on the Khalvati order of dervishes. xviiith century. 8°.

13. Ādāb i islāmiyyah, a work on Moslem customs. xviii–xixth century. 8°.

14. A MS. containing (i) Kitāb durr i maknūn, or Khiẓr-nāmah, a mystic work, and Manāḳib or life of Shaikh Ṣafī ul-Dīn. xixth century. 8°.

15. Kitāb i 'anḳā i mashriḳ, a Ḥurūfī composition in prose and verse, by Hāshim Bābā. xixth century. 12°.

16. Maḳālāt or discourses of Hājjī Bektash of Khurasan. xixth century. 8°.

17. Kitāb i hadīṣ ī arba'īn, a metrical account of the person and characteristics of Muḥammad, by Muḥ. Bēg Khāḳānī. xixth century. 8°.

18. Dīvān of Rāghib. xixth century. 8°.

19. A collection of official letters. Copied A.D. 1748. 12°. *Presented by J. Frowde, Esq.*

20. Two collections of popular songs. xixth century. 8°.

21. A miscellany, containing poems by Bāḳī and others, the Dīvān of Yaḥya, genealogical tables, Hamdī's Book of Predictions, and other works on divination, a metrical work on medicine by Nidā'ī, &c. 8°.

Turkish and Persian MSS.—1. Anīs ul-'ārifīn, a work on morals and religion, translated from Persian into Turkish by Ja'far Tughrā'ī. Copied A.H. 1080 (A.D. 1669). 8°. No other copy of this version seems to be on record.

2. Kitāb i tavā'if i 'ashrah, or Kitāb i khwājah i jahān va-natījah i jān, an account of ten religious sects and orders, composed in A.H. 929. xvi-xviiith century. 8°.

3. Dīvān of Fardī. xixth century. 8°. No other copy seems to be on record.

L. D. Barnett.

Department of Prints and Drawings.

I.—*Arrangement and Cataloguing, &c.*

The entire collection of prints and drawings was transferred during the early months of the year to the new Students' Room and mezzanine floor in the Extension Building, and there re-arranged before the re-opening of the Department, which was visited by H.M. the King on May 8th, and opened to students on the following day.

The following exhibitions were arranged in the new Exhibition Room in King Edward VII.'s Galleries: (1) Woodcuts and Metal-Cuts of the xv century, chiefly of the German School. (2) Drawings and Sketches by Old Masters and by Artists of the British School, acquired between 1912 and 1914. (3) Japanese and Chinese Paintings, principally from the Arthur Morrison Collection. (4) Select Prints illustrating the Processes and Schools of Engraving. (5) Recent Acquisitions. Printed guides to Exhibitions 1–3 have been issued, while Exhibitions 4 and 5 are of a more informal character and their contents are varied from time to time. A guide has been issued, however, as an introduction to Exhibition 4, explaining the processes and schools of engraving, of which selected specimens are always on view. The exhibition of recent acquisitions has included as special features a group of rare engravings of the xv century, ornament prints of the xvi century, rare engravings by Blake and proofs of the unpublished subjects of the Liber Studiorum, book plates by Sherborn, modern etchings of the French, Dutch, and Swedish schools, portrait lithographs of the early Victorian period by R. J. Lane, a large selection of modern English lithographs, and modern colour prints by English and German artists.

The preparation of a critical and descriptive Catalogue of the Dutch and Flemish Drawings has been continued, and the section dealing with Rembrandt and his school is approximately completed.

Vol. IV. of the Catalogue of Engraved British Portraits (S—Z) has been published, and Vol. V., containing the Catalogue of portrait groups and a supplement and index to the main work, is in course of preparation.

The card index to Periodicals has been brought up to date.

The books of reference have been completely, and the books of prints partly, re-arranged.

A new card index to the entire collection of books of reference is in course of preparation. About 3,250 cards have been written, representing the letters A, B, C, and E, with full cross references under the rest of the alphabet.

All books of prints and books of reference recently acquired have been catalogued, labelled, and placed. The English and Foreign Sale Catalogues have been re-arranged.

The work of writing slips for the titles of prints after English Masters, with a view to the preparation of a subject-index of that division of the collection, has been continued, and a similar index to prints after Masters of the Dutch and Flemish schools has been commenced.

The index to the collection of English topographical prints has been continued.

The index to the artists represented in the Catalogue of Engraved British Portraits has been continued, in manuscript, to the end of the letter Z.

The work of making a duplicate set of index slips to the Foreign Portraits has been continued.

The re-mounting of the etchings and lithographs by Goya has been completed, and they have been arranged in the order of Hofmann's Catalogue in five solander cases.

The arrangement of the book-plates by C. W. Sherborn has been completed.

The arrangement of the French portraits and of several classes of the Foreign Royal Portraits has been revised.

A large collection of drawings and engravings of natural history, from the Banks Collection, transferred from the Department of Printed Books, has been arranged and prepared for binding, where necessary.

Two thousand five hundred and sixty-nine prints, drawings, and books, recently acquired, have been incorporated with the divisions of the collection to which they severally belong.

Registration.—Six thousand six hundred and three items have been entered in the Register of acquisitions.

Stamping and Mounting.—Fourteen thousand two hundred and seventeen drawings, prints, &c., recently acquired, have been impressed with the departmental stamp and references to the Register.

Two hundred and fifteen drawings have been prepared and mounted on sunk mounts, thirty-three prints have been mounted on sunk, and one hundred and fifty-one on plain, mounts; three hundred and fifty-six book-plates have been placed on paper mounts. All the above have been lettered with the artists' names and references to the Register and to catalogues.

One hundred and seventy-four drawings by E. H. Bailey and one hundred and thirty-four etchings by A. Lunois have been mounted in readiness for binding.

Five hundred and ninety-seven drawings, four hundred and seventy-five prints, and a large number of mounts have been cleaned.

Students.—The total number of visitors admitted to the Print Room during the year ending 31st December 1914 was 5,406. The Students' Room was closed from January 1st to May 8th.

Photographing.—Two hundred and seventy-six applications were made for leave to photograph, and 1,292 photographs were taken.

II.—*Acquisitions.*

The total number of prints, drawings, books, &c. acquired during the year was 6,657,* of which the following are the most important:—

Italian School.

Drawings.

Cambiasi, Luca. Two women attacked by soldiers. Black chalk, pen, and sepia wash. *Presented by Walter Sickert, Esq.*

Engravings.

Perfetti, Antonio. Sibylla Persica, after Guercino. Proof before letters.

Etchings.

Mitizanetti, G. Twelve etchings of landscape and Venetian subjects. *Presented by Sydney Vacher, Esq.*

Piranesi, Giovanni Battista. Ninety-four subjects of the "Vedute di Roma" in early states, before the plates were re-worked. Interior of the Temple of Neptune at Paestum; unpublished and probably unique trial proof of a rejected plate, corresponding in subject to Pl. 12 of the published series of twenty views of Paestum.

Prints arranged to illustrate the Works of Masters.

Dorelli, Carlo. The Certosa of Pavia, engraved by J. Coney.

Vecellio, Tiziano. Danaë, engraved by G. Folo; proof.

German School.

Drawings.

Leu, Hans II. St. Bartholomew, signed and dated 1521; pen and ink. *Presented by the National Art-Collections Fund.*

Menzel, Adolf von. Workman grasping a hammer; black chalk.

Wächter, Georg Friedrich Eberhard von. Mercury and Argus, 1798; pen and bistre and bistre wash. *Presented by J. R. Saunders, Esq.*

Werner, Carl Friedrich Heinrich. The House of Pilate, Jerusalem; water-colour. *Presented by E. E. Leggatt, Esq.*

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* This number includes 4,014 items, chiefly prints and drawings, from the Banks and Ashbee bequests, transferred from the Department of Printed Books.

Engravings.

Anonymous engraver, called "Der Meister mit den Blumenrahmen" (15th cent.). The Betrayal of Christ.

Anonymous engraver, called "The Master of the St. Erasmus." The Betrayal of Christ. Christ in the wine-press.

Monogrammist A G. Nine of the Passion series copied from Martin Schongauer (B. 3, 4, 6–10, 12, 13). Fine impressions, from the Huth Collection.

Meckenem, Israhel van. The Flight into Egypt. Geisberg 37, first state; from the Huth Collection.

Beham, Hans Sebald. The Judgment of Paris. B. 89, Pauli 92, second state. Hercules and Iole. B. 99, Pauli 107, third state.

Engravings of Ornament.

Anonymous engraver, Nuremberg, c. 1570-80. Vase and three beakers.

Solis, Virgilius. Five vases and ewers. B. 514, 516, and three undescribed.

Etchings.

Amman, Jost. Portrait of Hans Sachs, B. 19, first state.

Kasimir, Luigi. View of Vienna, printed in colours.

Laske, Oskar. Fishmarket at Bruges. Daniel in the lions' den.

Lux, Richard. Tower at Innsbruck, printed in colours.

Struck, Hermann. Portrait of Marius Bauer.

Uhl, Joseph. Portrait of the Artist.

Lithographs.

Thoma, Hans. Christ on the Mount of Olives. *Presented by Campell Dodgson, Esq.*

Metal-cuts.

The Virgin and Child. Coloured dotted print of the 15th century (*manière criblée*) with the name of Bernhardinus Milnet on the ornamental border. Schreiber 2482. A celebrated and unique example of this style. From the Atkinson Collection at Manchester.

The Virgin in a robe embroidered with ears of corn. Coloured dotted print, undescribed; from the same collection.

Woodcuts.

Cranach, Lucas. Portrait of Georg Rhaw, printer, first state. *Presented by Sydney Vacher, Esq.*

Schäufelein, Hans. The fable of the miller and his ass, B. 108.

Thiemann, Carl. Tulips (printed in colours). Rödergasse, Rothenburg. *Presented by Campbell Dodgson, Esq.* Clivia. Winter in Amsterdam (both printed in colours).

Schools of the Netherlands.

Drawings.

Mauve, Anton. Cow and herdsman; pencil. Man watering his horse; pencil. Swine in a farmyard; pencil.

Wyck, Thomas. Gate and walls of an Italian town; pen and bistre and Indian ink wash.

Engravings.

Claassen, Allaert. Woman and dragon (round), B. 34. One of the rarest and most important works of this engraver.

Hondius, Willem. Frans Franck, after Van Dyck (one of the portraits of the Iconography), Wibiral 28. Undescribed and probably unique first state, before all letters.

Sadeler, Egidius. The Fates, an allegorical composition after Hans van Achen. *Presented by Campbell Dodgson, Esq.*

Etchings.

Angeren, A. Derkzen van. Nine etchings, chiefly views on the Maas. *Presented by J. C. J. Drucker, Esq.*

Bauer, Marius A. J. A Prince. A Bazaar in Damascus. Street in Damascus. Colonnade. Jeypore. *Presented by J. C. J. Drucker, Esq.*

Israels, Josef. The Smoker. *Presented by J. C. J. Drucker, Esq.*

Maris, Matthys. The Lady of Shalott. The Bride. The Shepherdess. The Enchanted Castle. Romantic Landscape. *Presented by J. C. J. Drucker, Esq.*

Prints arranged to illustrate the Works of Masters.

Bloemaert, Abraham. The Raising of Lazarus. Rare copy in reverse of the engraving by Jan Muller.

Bol, Hans. Kermesse. Published and engraved (?) by H. Cock.

Goes, Hugo van der. The Adoration of the Shepherds. Reproduction in colours of the important picture recently acquired in Spain by the Kaiser Friedrich Museum at Berlin.

French School.

Drawings.

Géricault, Théodore. Troophorses in stable; sepia wash. From the collections of Sir Richard Wallace and Sir J. Murray Scott.

Steinlen, Alexandre-Théophile. Studies of figures and hands; blue chalk. *Presented by Campbell Dodgson, Esq.*

Engravings.

Gaillard, Claude Ferdinand. Bust of Dante; unfinished proof. *Presented by E. E. Leggatt, Esq.*

St. Aubin, Augustin de. Portrait of the actor Le Kain, after S. B. Le Noir, Bocher 128, first state.

Etchings.

Chassériau, Théodore. Twelve illustrations to Othello.

Lithographs.

Chassériau, Théodore. Apollo and Daphne.

Corot, Jean-Baptiste-Camille. Saules et peupliers blancs. Delteil 30, second state.

Steinlen, Alexandre-Théophile. Two cats, poster.

Toulouse-Lautrec, F. de. La Partie de campagne. Sur le pont (both in colours). *Presented by Campbell Dodgson, Esq.*

Véber, Jean. Eight war cartoons, August 1914. *Presented by Campbell Dodgson, Esq.*

Vernier, Charles. Les Troupiers Français (set of fifty).

Scandinavian Schools.

Etchings.

Larsson, Carl. "Brita and I" (the artist and his daughter), large and rare etching. *Presented by Campbell Dodgson, Esq.*

A collection of 116 etchings, engravings, lithographs, and woodcuts by Scandinavian artists, chiefly Swedish (A. Andersson, A. Bergström, F. Boberg, A. Edelfelt, Prince Eugene of Sweden, C. S. Flodman, G. V. Forssell, A. T. Gellerstedt, R. Haglund, A. Haig, D. Ljungdahl, H. Molin, E. Norlind, A. Osterlind, C. O. Petersen, A. Tallberg, C. Wilhelmson, &c.), published by Föreningen för grafisk Konst, Stockholm, 1888–1914. *Presented by Campbell Dodgson, Esq.*

American School.

Drawings.

Whistler, J. A. McNeill. Study for the portrait of Rosa Corder. Study for the picture of Connie Gilchrist with a skipping-rope; pen and sepia and sepia wash.

Lithographs.

Sargent, John Singer, R.A. Study of a young man drawing. *Presented by C. C. Carstairs, Esq.*

Foreign Artists working in England.

Drawings.

Anrooy, Anton van. Scene outside the town hall at Louvain; pencil (published in *The Graphic*, Aug. 29, 1914).

Refugees flocking into the Grand' Place, Antwerp ; pencil (published in *The Graphic*, Nov. 7, 1914). *Presented by Marion H. Spielmann, Esq., F.S.A.*

Engravings.

Blondel, Jacques-François. Interior of St. Stephen's, Walbrook ; mezzotint.

Le Blon, Jacques-Christophe. The Temptation of Christ. after Carlo Maratti ; rare mezzotint printed in colours.

Etchings.

Hollar, Wenzel. The north side of Lincoln's Inn Fields. Undescribed and probably unique.

Legros, Alphonse. Portrait of A. Poulet-Malassis (Cat. 9 II.). Tête de Modèle (Cat. 44). La Mort de St. François (Cat. 56 I.). Tête de vieillard (Cat. 231 II.). All rare, from the Arthur Collection. Frontispiece to a book of modern Greek poems, 1883 (Cat. 264).

Lithographs.

Legros, Alphonse. Portrait of Champfleury (Cat. 35). La pièce aux six sujets (Cat. 112). Both rare, from the Arthur Collection.

Prints arranged to illustrate the Works of Masters.

Martin, Elias. The cabinet-maker enjoying his tippling time. Engraved by J. F. Martin.

Rigaud, Jean-François. Gualtherus and Griselda. Griselda returning to her father. A pair engraved by Pastorini, printed in colours. *Bequeathed by Miss E. M. C. Foster.*

ENGLISH SCHOOL.

Drawings.

Alexander, Robert Graham Dryden. A country road; water-colour. *Presented by the Artist.*

Bacon, John Henry Frederick, A.R.A. Soldiers shouting ; water-colour sketch. Illustration ; Indian ink wash. Sketch for an illustration ; black chalk.

Beerbohm, Max. Five caricatures of Walter Sickert ; pen and ink. *Presented by Walter Sickert, Esq.*

Bone, Muirhead. Street in Viterbo ; charcoal. *Presented by W. Cleverly Alexander, Esq.*

Bonington, Richard Parkes. The Luxembourg Gardens ; water-colour.

Collins, William, R.A. Four sketches near Norwich and Torquay ; water-colour.

Cooke, Edward William, R.A. Twenty-two pencil drawings of colossal Egyptian sculpture in process of removal within

the British Museum, in May and June 1834. *Presented by Sir Frederic Kenyon, K.C.B.*

Cooper, Thomas Sidney, R.A. Study of sheep; pencil.

Crofts, Ernest, R.A. Six studies of soldiers of the period of Waterloo; pencil, heightened with white and body-colour.

Dadd, Richard. The crooked path; body-colour on vellum, dated 1866. *Presented by Mr. S. W. Littlejohn.*

Fulleylove, John. The plain of Attica, looking towards Salamis; water-colour. Mycenæ; pencil. Mars Hill and Theseum; pencil. South door of the Holy Sepulchre; pencil, The Jews' Wailing Wall, Jerusalem; pencil. Dogana, Genoa; pencil. The Hague; pencil. Old Port, Marseilles; pencil. Two sketches in Paris; pencil. Pola; pencil. Venetian Gate, Nauplia; pencil and water-colour.

Gainsborough, Thomas, R.A. Lad carrying faggot; black chalk.

Gardner, Daniel. Charles Howard, 11th Duke of Norfolk; pastel, unfinished.

Hartrick, Archibald Standish. Seven drawings of Cotswold country types. The Man with the Wassail Bowl, The Hedger and Ditcher, The Son of the Prodigal, Ploughman, Old Ikey the Sexton, The Farmer's Boy, The old English Yeoman; coloured chalks and water-colours. *Presented by Maurice Hewlett, Esq., and other subscribers, with the aid of a grant from the National Art-Collections Fund.*

Hogarth, William. Sketches for two engravings in the series, "Industry and Idleness." Pl. 1, The Fellow 'Prentices at their Looms; Pl. 2, The Industrious Apprentice performing the duty of a Christian; pen and bistre and Indian ink wash. *Presented by the National Art-Collections Fund.*

Holland, James. View of Lynmouth, 1849; water-colour.

Leech, John. Portrait of the artist, 1862; black and red chalk and water-colour.

Lucas, John Seymour, R.A. Study for a figure in the picture of Martin Luther's works being burnt outside old St. Paul's, 1521; red and black chalk. *Presented by H. J. Pfungst, Esq., F.S.A.*

Mulready, William, R.A. Figure seated in a wood, 1845; pen and ink and sepia wash. *Presented by E. E. Leggatt, Esq.*

Murray, Miss E. E. Woodcock feathers; water-colour. Feathers of Banksian cockatoo; water-colour. *Presented by the Artist.*

Paton, Sir Joseph Noel. A Midsummer Night's Dream: Bottom and Titania; pen and ink.

Romney, George. Group representing Emma Hart seated at her spinning wheel, with William Hayley, George Romney, and the Hon. Charles Greville; pen and bistre and Indian ink wash. *Presented by J. P. Heseltine, Esq.*

Romney, George. Seventy sketches for portraits, compositions, &c., extracted from sketch-books. *Presented by J. P. Heseltine, Esq.*

Rothenstein, William. Life study of a female model; black chalk. *Presented by Campbell Dodgson, Esq.*

Sickert, Walter. Interior of the old Bedford Music-hall; black and red chalk and pen and ink. *Presented by the Artist.*

Smith, Joseph Clarendon. View of Waltham Abbey, 1807; pen and sepia.

Stevens, Alfred. Two round designs for decoration in relief on doors in Dorchester House; water-colours.

Strang, William, A.R.A. Study of a labourer; coloured chalk. Study of a young woman; coloured chalk. *Presented by H. J. Pfungst, Esq., F.S.A.*

Tenniel, Sir John. Design for title-page to *Punch*, vol. xliii. (1862); pencil. Sketch for an illustration pencil. Drawing for *Punch* cartoon, Sept. 2, 1893, ying her Strength"; pencil.

Webster, Thomas, R.A. Twenty-three drawings of old men and women, boys and girls, mostly studies for pictures of village life; pencil, red and black chalk, and pen and ink.

Engravings.

Lucas, David. Three views in Norway, after E. Price; proofs before letters. Sunset, after W. van de Velde. Dieppe, after C. Tomkins. Rose, Thistle, and Shamrock, after Sir W. C. Ross; proof before title. Portrait of Mrs. D. Lucas; proof. All mezzotints.

Pratt, Joseph Bishop. Miss Pollock, after Hoppner. Lady Raglan, after Lawrence. Miss Ross, after Raeburn. Maria, Duchess of Gloucester, after Gainsborough. Mezzotints, unfinished proofs. *Presented by E. E. Leggatt, Esq.*

Pratt, Stanley Claude (1882–1914). Seven engravings in the mixed manner, after J. Farquharson, J. F. Herring, F. Paton, H. Wardle, and others. *Presented by E. E. Leggatt, Esq.*

Reynolds, S. W. (sen.). Death of Dido, after Sir J. Reynolds, P.R.A.; proof. George Webb Hall, after J. Lonsdale (W. 125); before letters. Hugh Leycester, after W. Owen (W. 179); before letters. Mezzotints.

Ward, William Thomas Chalmers, D.D., after A. Geddes; undescribed state before all letters. Portrait of Gen. Sir Ronald Crawford Ferguson, G.C.B.; proof touched by J. R. Smith, with a letter from Smith to Ward in red chalk upon the margin, referring to the corrections made.

Etchings.

Anderson, Stanley. Rue St. Romain, Rouen. Somerset House. Head studies, Nos. 5 and 6. Casual labour, Billings-

gate. What is Art? A windy Day. Kidbrooke. Carting Hay. *Presented by the Artist.*

Baskett, C. H. Nine Aquatints. Landermere. Low Tide. The Mill by the Sea. Limehouse. Rochester. St. Ives. The early Tide. Quai du Rosaire, Bruges. The Gateway of the City. *Presented by Messrs. P. and D. Colnaghi and Obach.*

Bone, Muirhead. A Tuscan Farm; 6th state. *Presented by James MacLehose, Esq.* Montalban Tower, Amsterdam; trial proof. *Presented by the Artist.*

Cameron, D. Y., A.R.A. Shuna. Loch-en-dorb. Carselands. Appin Rocks. *Presented by an anonymous donor.*

Crome, John. Road Scene, Trowse Hall; trial proof, touched by the Artist.

Dyce, William, R.A. Five etchings, modern impressions. *Presented by Miss Dyce.*

East, Sir Alfred, R.A. River Scene. Station Platform. Sunrise, Japan. Farm End. Farm End (soft ground). Aqueduct. Normandy Road. Evening Glow. In the Heart of the Cotswolds. Edge of the Forest. Corner of the Coppice. A Cotswold Village. The Avenue, Montreuil. The Park. A Garden, Taormina. Old Church. The Pool. Gloucestershire Landscape. Evening (Herkomer's process). *Presented by Lady East.* St. Ives. On the Banks of the Seine.

Frood, Hester. Cottages in the Camargue. Farmyard near Caen. Entrevaux. Château de Gratot. An old French Town. Albi Cathedral. *Presented by the Artist.*

Gethin, Percy Francis. The Coliseum. Auxerre. *Presented by Messrs. P. and D. Colnaghi and Obach.*

Gosse, Sylvia. Girl sitting up in Bed. *Presented by W. Sickert, Esq.*

Griggs, Frederick Landseer. Prior Farm. Maur's Farm. *Presented by the Artist.*

Hole, William. Seven etchings after Bosboom, Corot, Diaz, Jacque, J. Maris, M. Maris, and Monticelli. *Presented by M. H. Spielmann, Esq., F.S.A.*

James, Hon. Walter. Wool Law. The Carrara Mountains. The Wire Fence. Moorland. Hill Country, Italy. Group of Trees. The Bather. The Huel Crags, Northumberland. Redes dale Birches. The Pine Wood. *Presented by J. C. J. Drucker, Esq.*

McBey, James. Portrait of Disraeli. *Presented by W. Hutcheon, Esq.* Portrait of the artist in his studio. *Presented by the Artist.*

Robins, W. P. An old Willow. Marshes at Lea Bridge. A Lock on the Stour. Staples Farm. The Barn by the Stream. *Presented by Messrs. P. and D. Colnaghi and Obach.*

Shrimpton, A. M (Mrs. W. Giles). Hazy Morning in June; aquatint.

Sickert, Walter. Upper portion of the portal of St. Mark's, Venice. *Presented by Miss Sylvia Gosse.* Old Bedford Music-hall. Hotel Royal, Dieppe. Attack and Defence. The passing Funeral. Noctes Ambrosianae. The Middlesex Music-hall. *Presented by the Artist.*

Strang, William, A.R.A. Ceres (Cat. 305); second and third states. *Presented by Miss E. P. McGhee.*

Verpilleux, E. A. The Cross Roads; aquatint printed in colours. *Presented by Messrs. P. and D. Colnaghi and Obach.*

Walcot, W. The Trojan Horse.

Lithographs.

Brangwyn, Frank, A.R.A. "War. To arms, Citizens of the Empire!" (poster). *Presented by F. Pick, Esq.*

Clausen, George, R.A. An Old Horse. *Presented by Campbell Dodgson, Esq.*

Copley, John. Florence, the Grain Market. *Presented by the Artist.* Anger. Une Grande Dame. The Surgeon. Hammers. A Dancer. Pavlova. Albano, the water carrier. Culla, the olive pruner. Monte Pisano, olive gatherers.

Gabain, Ethel (Mrs. John Copley). The White Door. Le jupon rayé. La Chambre déserte. The Outcast. Lecture. Toilette. Sylphide. Les Petits Amours.

Hartrick, A. S. Calvary (two early proofs). The Forges. Betsy.

Jackson, F. Ernest. Church of St. Riquier, Chartres (trial proof). *Presented by the Artist.* Dorothy Fitzgerald. Philip Sargant Florence. The Front Door. The Buccaneer. Sir F. Macmillan. Rev. Adrien Fortescue. Bill. A. F. Petersen, K.C. Mrs. Hamilton Fox. Effet de lumière. Miss Ethel Sargant.

Pryse, Gerald Spencer. Bathers by the Atlantic. *Presented by the Artist.* The Workers' Way (poster); proof. Eights taking the Water.

Ricketts, Charles. Poster for the "Dynasts," by Thomas Hardy (proof). *Presented by the Artist.*

Thrupp, Frederick. Outlines from Coleridge's "Ancient Mariner" (set of five). *Presented by E. E. Leggatt, Esq.*

Set of lithographic posters for the Underground Railway, in proof state, by Anthony R. Barker, Harry Becker, Frank Brangwyn, A.R.A., A. S. Hartrick, F. Ernest Jackson, J. Kerr-Lawson, Joseph Pennell, and G. Spencer Pryse. *Presented by F. Ernest Jackson, Esq.*

Woodcuts.

Gere, C. M. (designed by). Set of twenty-nine illustrations to Malory's "Morte d'Arthur," printed at the Ashendene Press; engraved by W. H. Hooper and J. B. Swain. *Presented*

by C. H. St. John Hornby, Esq. Also a set of engravers' proofs, with one unpublished engraving by Hooper.

Giles, William. Our Lady's Birds. The Sources of the Clitumnus. Both printed in colour, the former from wood, the latter from zinc blocks.

Seaby, Allen William. Eleven woodcuts of birds, printed in colours. *Presented by the Artist.*

Shrimpton, A. M. (Mrs. W. Giles). Vetches in Rye. Hazy Morning in June. Both printed in colours.

Tenniel, Sir John (designed by). 109 proof woodcut illustrations to *Punch's Pocket-book*, 1865–1881 (an almost complete set for these years), cut by J. Swain.

Verpilleux, E. A. Edinburgh Castle. King's College Chapel, Cambridge. Entrance to the British Museum. All printed in colours. *Presented by Messrs. P. and D. Colnaghi and Obach.*

Prints arranged to illustrate the Works of Masters.

Brangwyn, Frank, A.R.A. Venice; photogravure printed in colours.

Frith, W. P., R.A. "Sherry, Sir?" engraved by Frank Holl. *Presented by E. E. Leggatt, Esq.*

New, Edmund Hort. View of Florence. *Presented by the Artist.*

Reynolds, Sir Joshua, P.R.A. Elizabeth, Countess of Pembroke; rare etching by J. Bretherton.

Turner, J. M. W., R.A. Thirty-seven unfinished proofs, by J. C. Allen, G. Cooke, W. B. Cooke, H. Le Keux, R. Wallis, and other engravers. *Presented by W. G. Rawlinson, Esq.*

Woolmer, A. J. Day Dreams; line engraving, proof before all letters.

Portraits.

Foreign.

Adelaide of Hohenlohe-Langenburg, Princess of Schleswig-Holstein. Anonymous.

Benedict XV. Coloured photogravure. *Presented by Campbell Dodgson, Esq.*

Caroline Amalie, Duchess of Saxe-Gotha-Altenburg. Lithograph by Hanfstängl.

Elizabeth Louise, Queen of Prussia. Lithograph.

Ernst, Duke of Saxe-Coburg-Gotha. Lithograph by Hanfstängl.

Frederica Sophia Wilhelmina of Prussia, wife of William V., Prince of Orange. Engraved by R. Vinkeles after J. J. C. Haag.

Friedrich Wilhelm IV., King of Prussia. Lithograph.

Maria Wilhelmina, Grand Duchess of Mecklenburg-Strelitz. Lithograph.

Sophia Wilhelmina, Grand Duchess of Baden. Lithograph by T. H. Maguire after F. Winterhalter.

Stephanie, Queen of Portugal. Anonymous.

William II., King of the Netherlands. Engraved by B. Taurel after J. A. Kruseman.

English.

Ball, Sidney, M.A., Fellow and Tutor of St. John's College, Oxford. Etching by Stanley Anderson. *Presented by F. W. Hall, Esq.*

Beresford, William Carr, Viscount. Line and stipple by F. Bartolozzi.

Buller, Gen. Sir Redvers. Stipple by G. J. Stodart after H. T. Wells.

Carson, Sir Edward, K.C. Etching by Col. John Day. *Presented by the Artist.*

Champion, Joseph. Line-engraving by J. Hulett.

Chetwynd, Richard, 5th Viscount. Stipple by A. Fogg after Sir W. Beechey.

Cholmondeley, George James, 1st Marquess of. Mezzotint by W. Brett after J. Simpson.

Clarke, Sir Charles, Bart. Mezzotint by D. Lucas after S. Lane.

Cook, Eliza. Lithograph by H. B. Willis after J. Watkins.

Copley, Lady Charlotte. Lithograph by T. S. Robins.

Curzon of Kedleston, Earl. Photogravure after Sir George Reid. Presented by the Rt. Hon. Earl Curzon of Kedleston.

Dufferin and Ava, Frederick, 1st Marquis of. Stipple by C. Hole after H. T. Wells.

Forster, William Edward. Stipple by C. Holt after H. T. Wells.

Fox, Charles James. Stipple by T. Gaugain after Nollekens.

Fox, Charles James. Mezzotint by J. Young after Nollekens.

Goodwin, Harvey, D.D., Bishop of Carlisle. Mezzotint by T. L. Atkinson after G. Richmond, R.A. *Presented by Miss Goodwin.*

Howard, Lord Henry. Lithograph.

Hume, Joseph, M.P. Mezzotint by F. Bacon after G. A. Healy.

Jackson, Francis James. Mezzotint by V. Green after L. F. Abbott.

Jolland, Wolley, Vicar of Louth. Mezzotint by D. Lucas after A. Jones.

Spooner, Archibald William, D.D. Mezzotint by J. Cother Webb after Hugh G. Riviere. *Presented.*

Wellington, Arthur, 1st Duke of. Stipple by Constantino de Fontes, Lisbon, 1811.

Wellington, Arthur, 1st Duke of. Line and stipple by F. Bartolozzi.

Whitechurch, Alexander. Mezzotint by W. Humphrey after J. Shoulor.

Book-plates.

Bone, Muirhead. S. V. Pearson. *Presented by Dr. S. Vere Pearson.*

Cameron, D. Y., A.R.A. J. Craig Annan. J. J. MacLehose. *Presented by Stewart Dick, Esq.* D. W. Catalani, M. F. Yorke. *Presented by Frank Rinder, Esq.* R. Y. Pickering (No. 2). *Presented by T. P. Cameron, Esq.* Eve, G. W. Queen Victoria (in three sizes). *Presented by the Artist.* Rassenfosse, Armand. A. Mockel. A. Rassenfosse. A. von Winiwarter. *Presented by Stewart Dick, Esq.*

Sherborn, C. W. Rev. Clements O. Bond. *Presented by the Rev. C. O. Bond.*

Collections and Sets.

Two hundred and nineteen engravings by Bernard Picart, including many early states and counterproofs.

Seventy-five mezzotint engravings (portraits) by Edward Burton of Edinburgh (1820–1899); a collection formed by the engraver himself.

Eighty-two proof lithographs (portraits) by R. J. Lane, A.R.A. *Presented by Mrs. Reginald Poole and Austin Lane Poole, Esq.*

One hundred and sixty engraved portraits of members of the House of Medici; a collection formed by J. T. Simes in 1836.

Fifty-eight India proofs before letters of the engraved portraits in Finden's "Female Aristocracy of the Court of Queen Victoria," 1849.

One hundred and ninety-three engraved English portraits, including many from *La Belle Assemblée, Court Magazine, The Lady's Monthly Museum, The Portrait Gallery of Distinguished Females,* and other publications of the early nineteenth century. *Presented by E. E. Leggatt, Esq.*

Fifty-seven photogravure reproductions of pictures in the Pitti and Uffizi Galleries, Florence.

Nineteen reproductions of pictures in colour, published by the Medici Society. *Presented by the Medici Society, Ltd.*

Books of Prints and Books of Reference.

Brangwyn, Frank. Work (ten reproductions in colour of drawings).

Canale, Antonio. Ten engravings of the ceremonies attending the Election of a Doge of Venice, engraved by G. B. Brustoloni.

Corbould, Edward. The Tournament at Elgin Castle, 1839; lithographs. *Presented by C. F. Corbould-Ellis, Esq.*

Donati, Antonio. Thirty-six views of the Monastery of Vallombrosa, 1784.

Friedländer, Walther. Nicolas Poussin.

Guiffrey, Jean. Le Voyage d'Eugène Delacroix au Maroc.

Kristeller, Paul. Die Lombardische Graphik.

Loutherbourg, P. J. de. Scenery of England and Wales (coloured aquatints).

Mercati, Giovanni Battista. Alcune vedute e prospettive di luoghi dishabitati di Roma (1629). Fifty etchings (B. xx. 143. 12–63) in undescribed first state.

Ruskin, John. Example of the Architecture of Venice, 1887.

Schrey, Rudolf. Das graphische Werk Fritz Boehles.

Steinmann, Ernst. Die Portraitdarstellungen des Michelangelo.

Campbell Dodgson.

Sub-Department of Oriental Prints and Drawings.

I.—Arrangement and Cataloguing, &c.

Early in the year the transference of the collections to the extension building was completed; and the Chinese and Japanese paintings which had been on exhibition in the King's Library were removed.

An exhibition was prepared, and opened to the public in May, of Chinese and Japanese pictures selected from the Morrison Collection, together with a selection of Oriental paintings intended for permanent exhibition.

An exhibition of the more important of the paintings, drawings and woodcuts in the Stein Collection, from Chinese Turkestan, was prepared, and was opened to the public at the same time.

Guides to both of these exhibitions have been written, printed, and put on sale.

The cases in the department containing, or destined to contain, Oriental paintings or prints have been newly numbered as a separate series.

The collections have been largely re-arranged. The Chinese pictures from the Anderson, Wegener, Franks, and Morrison Collections have been brought together, and the Japanese pictures from the Morrison Collection have been arranged in the large cabinet containing the rest of the Japanese pictures in the department.

Twenty Chinese paintings, and six Japanese paintings, recently acquired, have been catalogued.

The final revision, preparation for press, and printing of the Catalogue of Japanese Woodcuts have been continued. Sheets L—U have been printed off. Sheets X—Z and 2 A—2 B have been printed, and the proofs corrected. The revision of the catalogue of prints by Hiroshige has been begun.

All paintings in the Stein Collection bearing dates or inscriptions have been studied and annotated in connection with Chinese MS. rolls in the same collection, 1,310 of which have been sorted and listed.

The preparation of an index of the Oriental Artists represented in the collection has been continued; the Chinese section of the index has been completed, and considerable progress has been made with the Japanese section.

A subject-index has been made for Tajima's "Selected Relics of Japanese Art."

An index has been made of the Buddhist images in the work called *Butsu-zō-zui*; the Buddhist paintings in the Anderson Collection have heen examined, and the catalogue, where necessary, corrected.

An index has been made of the contents of *Hsuan Ho Hua P'u* and other Chinese and Japanese works on art.

A list has been made of the Chinese paintings in the Wegener and Morrison Collections; and a large number of signatures and seals on paintings in the former collection have been deciphered.

One hundred and eight prints, paintings, &c., recently acquired, have been incorporated with the divisions of the collection to which they severally belong.

All books of prints and books of reference, recently acquired, have been catalogued, labelled, and placed.

The collection of books of reference has been re-arranged.

Registration.—One hundred and seventy-eight items have been entered in the Register of Acquisitions.

Stamping and Mounting.—One hundred and fifty-four prints, paintings, &c., recently acquired, have been impressed with the departmental stamp and references to the Register.

The paintings by Ku K'ai-chih and another ancient Chinese painting have been cleaned, repaired, remounted and framed.

Twenty-four Japanese drawings have been mounted on sunk mounts.

Three Chinese paintings have been remounted on sunk mounts, and twenty-two Chinese and Japanese paintings have been remounted as *kakemono* or *makimono*: one Japanese screen has also been remounted.

Two Japanese paintings have been framed.

Two hundred and twenty-eight Japanese woodcuts have been mounted on sunk mounts, and fifty-two of these have been specially cleaned and repaired.

Two Persian paintings have been mounted on sunk mounts. Ten Indian paintings and drawings have been mounted on sunk mounts, and four of these have been specially cleaned and repaired.

Thirty-two silk paintings in the Stein Collection have been cleaned, repaired, backed, mounted and framed; twenty frescoes have been backed with plaster, framed and glazed, and two others have been backed and framed.

Twenty banner-paintings from the same collection have been mounted on sunk mounts, three banners have been cleaned, and twenty-four drawings have been cleaned and mounted on sunk or ordinary mounts.

Thirty-two photographs illustrating the sites explored by the Stein Expedition have been mounted for exhibition.

II.—Acquisitions.

The total number of paintings, prints, &c. acquired during the year was 386, of which the following are the most important.

Chinese.

Paintings.

Anonymous, Northern Sung.—Lady Fong, a heroine of the 1st century B.C., throwing herself in the path of an escaped bear, to save the Emperor's life. A painting of great importance in view of the extreme rarity of figure-paintings, other than Buddhist, of so early a period (10th–11th century), and remarkable for beauty of colour as well as for energy of design. Acquired partly by purchase, but chiefly by the aid of the National Art-Collections Fund, and of private subscribers.

Chao Pai-chü, attributed to. Demons attacking the Bowl in which Buddha had hidden Pingala, the child of the Demon-Goddess. Makimono, painted in colours.

Anonymous, Ming dynasty. Cranes and camellia flowers. Kakemono, painted in colours.

Woodcuts.

Battle-scenes from a play; print in four colours. Two sages, after Ch'ien Ta-hsin; upright panel print in white on black. Fairies and cranes on a mountain; upright panel print in white on blue. *Presented by Prof. W. Bateson.*

Stone Prints.

Sage with a scroll. Fudō. Prints in white and black. *Presented by Prof. W. Bateson.*

Tree and hut, after Yen Hui; Peonies, after Chao Po-chü; Yellow Roses, after Ma Kung-hsien.

Japanese.

Paintings.

Kan Densu. Kanzan and Jitoku. Kakemono, painted in ink.

Kano Takanobu. Plum and Bamboo. Two-fold screen, painted in colours on a gold ground.

Iwasa Matabei, attributed to. Reishojō, a single standing figure. Kakemono, painted in colours.

Early Ukiyo-yé School, 17th century. Groups of men and women playing games, &c. A pair of paintings in colours and gold.

Kano School, 18th century. The Life of Sakyamuni. Twenty-six paintings in colours and gold, with MS. text, in five volumes. *Presented by Mrs. Moseley.*

Kisui. Two sketch-books. *Presented by Mrs. Moseley.*

Woodcuts.

Bunchō, Ippitsusai. Shōjō drinking saké.

Harunobu. Watonai killing a tiger, one of the artist's very rare early prints of actors. *Beni-yé.*

Harushige. Two girls and a youth.

Hokusai. Danjūrō, the actor, in character: signed Shunrō. "The Bewitching Fox of the Three Kingdoms," diptych. *Both presented by R. Leicester Harmsworth, Esq.*

Dragon-fly and *Kikyō* flower: one of the series of Large Flowers. Meguro, one of the Thirty-six Views of Fuji. *Presented by Arthur Morrison, Esq.*

Kiyohiro. Awabi fisher. *Beni-yé.*

Kiyonaga. Scene from a play. *Presented by R. Leicester Harmsworth, Esq.* Beauties with attendants.

Koriusai. Tiger and Dragon fighting; very rare print in the Chinese manner, embossed. *Hashira-kaké.* Heron and crow on a snowy branch.

Koriusai, attributed to. Falcon on rock. *Kakemono-yé.*

Kuniyoshi. Seaweed-gatherers in a boat.

Masanobu, Kitao, attributed to. Group of girls. *Presented by R. Leicester Harmsworth, Esq.*

Shunyei. Girl in *Sarashi* dance.

Utamaro. Girl on verandah steps. Girl with a fan, in flowered dress; one of the very rare set, "New Pattern of Brocade after Utamaro's style."

Persian.

Paintings.

Joseph and Zuleika. Miniature painting in colours and gold; 16th century.

Mahomet and the Camels. Miniature painting in colours and gold; 17th century.

Indian.

Paintings and Drawings.

Mogul School. Two girls in a lotus pool; 17th century; in colours. *Presented by W. C. Alexander, Esq.*

Kangra School. The Messenger of Krishna; in colours. Girl on a terrace listening to an old woman; in colours. Two girls with gazelles; in colours. The Thunderstorm; in colours. Krishna and Radha; outline drawing, slightly coloured. Siva and Parvati; outline drawing. All 18th century.

Jaipur School. Lady and gazelles; in colours. *Presented by W. C. Alexander, Esq.* Ladies and a peacock outside a palace; in colours; early 17th century. Five portrait drawings.

Tibetan.

Painting.

Scenes from the Buddha legend, grouped round a figure of Buddha. One of a set of three; the other two being already in the Museum Collection.

Books of Prints and Books of Reference.

Chin Shih So, 1821. *Presented by Mrs. Moseley.*

Hua-hsuëh Hsing-yin.

Kashira-gaki Sōho Kunmō-zui, 1789. *Presented by Mrs. Moseley.*

Koechlin, Raymond. Yeishi, Chōki, Hokusai.

Kōgwa Bikō.

Lange, R. Thesaurus Japonicus, Bd. I.

Morikuni, Tachibana. Yehon Sha-hō Fukuro. *Presented by Mrs. Moseley.*

Shunyō. Sannō Shingei. *Presented by Mrs. Moseley.*

Succo, F. Toyokuni und seine Zeit.

Sung Yüan i-lai (encyclopædia of artists).

Tchang, Father Matthias. Synchronismes Chinois.

Yoshio, Tanaka. Sōmoku Zusetsu. *Presented by Mrs. Moseley.*

Laurence Binyon.

Department of Egyptian and Assyrian Antiquities.

I.—*Arrangement, Cataloguing, &c.*

Egyptian Antiquities:—

The general re-arrangement of the Egyptian Collections has been continued, and the greater number of the objects acquired during the year have been cleaned and repaired (where necessary) in readiness for exhibition, when the installation of collections in the new Extension is effected.

The washing and cleaning of monuments in hard stone and the cleansing of limestone and sandstone statues of salt deposits have been continued. Many stelæ have been removed from their frames and examined, and arrangements made for ventilating the frames. Earthenware bowls, pots, &c., saturated with salts have been soaked and cleaned.

The Egyptian and other papyri have been removed to a series of wall-cases specially prepared in the Carthaginian Basement. Several collections offered for purchase have been removed to cases in the new Extension. King Edward's Papyrus has been removed to the Assyrian Saloon.

The labelling of the Collections has been continued, and good progress has been made with addition of custody numbers. Many labels have been retouched or repainted, and several new and fuller labels have been prepared and attached to the objects.

Five hundred and fifty-five scarabs have been cleaned, moulds and casts of the bases have been made for the Catalogue of Scarabs, which is in course of publication, and the scarabs have been remounted and renumbered. One thousand and eighty-five numbers have been attached to scarab mounts, and nine hundred and three scarabs have been specially mounted.

Eighty-two labels have been painted, two thousand nine hundred and ten objects have been numbered, and fifty-four objects have been photographed.

Sixteen terra-cotta figures, vases, and bowls have been cleaned and repaired.

Thirty-four marble and alabaster plinths have been prepared; twenty-four Caen-stone pedestals and plinths have been prepared; nine hundred and twenty-two wooden tablets have been prepared and covered with cloth; ninety-five satin-wood plinths have been prepared; fourteen stelæ frames have been made and painted, and stelæ fitted in them; fourteen stands for earthenware vessels have been made and painted; two oak rests for a sarcophagus cover have been made, and twenty-two lengths of wood for labels have been prepared and ebonized.

Forty-eight figures, statues, and other objects have been mounted on marble or alabaster or granite plinths; nine hundred and twenty scarabs have been mounted; and fourteen terra-cotta bowls, &c. have been mounted on stands.

A granite sarcophagus has been taken to pieces, the old dowels have been removed and new copper plugs inserted, and the monument has been mounted on granite plinths.

A pyramidal sepulchral stele has been repaired and mounted; three stelæ have been repaired, and six stelæ have been cleaned.

The store-moulds for casts have been taken out where required, and replaced after use.

Several collections of antiquities which have been offered for purchase have been examined, and repacked.

Eighty-two labels have been drafted, one thousand four hundred and nine objects have been registered or re-registered, and the slip list of registered objects has been continued.

Drawings of the sculptured portions of about seventy-six stelæ, and copies of the hieroglyphic texts which they illustrate, have been made.

Works in Progress.

1. *Coptic MSS.*—Six manuscripts for Vol. V. have been copied and the copies collated and sent to the printer, and fifteen sheets of sixteen pages have been read and printed off. Indexes to these sheets have been compiled. A preface and introduction have been written to Vol. IV., and the translation has been read and passed for press.

2. *Catalogue of Scarabs.*—Nine hundred and eighty slips for Vol. II. have been written, and eighty-five have been revised. Selections of scarabs for reproduction have been made.

3. *Egyptian Texts.*—An introduction and description of plates for Part V. have been written, and the bulk of the material for Part VI. has been copied and arranged.

Assyrian Antiquities :—

The general re-arrangement of the unexhibited section of the Babylonian and Assyrian Collections has been continued, and bas-reliefs, stelæ, &c., have been cleaned.

The remainder of the tablets which were housed temporarily in the Assyrian Saloon have been brought upstairs, the wooden cases in which they were have been taken down, repaired, and rebuilt, and the tablets replaced in them.

A number of important cylinders, both Babylonian and Assyrian, have been removed to a case in the Basement, and two of the Table-Cases from the Nineveh Gallery have been transferred to the Basement.

The marble statue of Ashur-nasir-pal has been taken to pieces, and plugged with copper in several places and reconstructed.

The bases of two colossal winged figures have been faced with granite, and the plinths of the wall sculptures in the Assyrian Saloon have been cleaned, and the labels re-written.

Two sections of the Kûyûnjik Collection have been numbered and arranged, and eighty labels have been painted.

One hundred and eighty-three tablets have been cleaned; and one hundred and sixty-two tablets have been repaired, twenty-one fragments of an inscribed cylinder have been rejoined, and five thousand boxes have been lined with cotton-wool.

Registration numbers have been painted on five thousand seven hundred tablets; fifty-seven objects have been photographed; and casts of seventy-one cylinder seals have been made.

Ten satin-wood plinths have been prepared, thirty-nine cloth-covered mounts, thirty-four ebonized labels, lengths of wood for seventy-two labels, and a box for Assyrian squeezes have been made. Forty-nine objects have been mounted. Eight hundred and eighty number labels have been painted and affixed to the trays. Twenty boxes to hold cylinders have been prepared.

Seven sheets of the Supplement of the K. Catalogue have been passed for press, and eighty plates of the Bronze Gates of Shalmaneser have been labelled, and half titles and an introduction written.

Four thousand two hundred and three tablets have been registered, and material for about sixty plates of text has been arranged.

One hundred and forty-two Hittite and other tablet fragments have been copied; sixty-one cylinder seals have been catalogued; and thirty-eight groups of cylinders have been selected for plates.

Works in Progress.

1. *Cuneiform Texts.*—Thirty-five plates for Part XXXV. and twenty-five plates for Part XXXVI. have been copied.

2. *Bronze Gates of Shalmaneser.*—Eighty plates in collotype have been passed for press.

Publications.

1. Egyptian Sculptures in the British Museum. With 54 plates. 4to.
2. Wall-paintings from Egyptian Tombs. Coloured plates.
3. Egyptian Texts. Part V.
4. Coptic Martyrdoms in the Dialect of Upper Egypt.
5. Assyrian Sculptures in the British Museum. With 53 plates. 4to.

6. Cuneiform Texts. Parts XXXIV.
7. Sets of Pictorial Post Cards:—
   Portraits of Egyptian Kings.
   Egyptian Sculpture.
   Egyptian Coffins and Sarcophagi.
   Egyptian Mummies.
   Babylonian Antiquities.
   Assyrian Antiquities illustrating Bible History.
   Assyrian Sculptures—reign of Ashur-nasir-pal.

Students.—About 3,000 visits have been made to the Department by students and inquirers; and 18,922 objects have been issued for the use of students.

Personally conducted Parties.—Thirty parties have been personally conducted through the Department by members of the staff, the number of persons being about 815, including pupil-teachers from schools.

II.—*Acquisitions.*

i.—Egyptian:—

I.—1. Massive head and shoulders of a black basalt statue of one of the Ptolemies. It was found among the ruins of a small temple which had been built by the side of a well in the Delta by Ptolemy IX. and had been repaired by Ptolemy XIII. It is a fine example of a royal portrait statue of the period, and is the best example of its class in the Museum. 1st century B.C.

2. A massive quartzite, sandstone sarcophagus made for Tehuti-ḥetep, a royal scribe, and superintendent of the cattle-breeding establishment of a king of the XIXth dynasty. On the outside are cut in outline figures of all the great gods of the dead, and the usual texts in which protection for the deceased is promised. From the Northern Delta. About B.C. 1300.

3. A brightly painted wooden coffin of Tcheher (Teôs), an official who flourished in the early part of the Roman Period. The details and method of decoration are copied from coffins of the Ptolemaic Period, and the single line of inscription down the front contains Demotic forms of words. This is the only funerary monument from the Great Oasis in the British Museum. From Khârgah. 1st or 2nd century A.D.

4. Limestone pyramidal sepulchral monument of Bak-en-pa-Râ, with a beautifully sculptured portrait figure of the deceased standing in the hollow at the base that represents the door of the tomb. From Memphis. XVIIIth or XIXth dynasty.

5. Black granite portrait figure of an Egyptian official; very fine work. Found near the Serapeum at Sakkârah. 1st or 2nd century A.D.

6, 7. Two painted coffins in a rather poor state of preservation, but of importance because of their form and decoration, and because they help to fill the gap in the series between the XIIIth and the XVIIIth dynasties. They are the only examples of their period in the British Museum. From the Earl of Carnarvon's excavations at Thebes. XVIIth dynasty.

8. Slice of calcareous stone with the representation of the head of Amen-hetep IV., the "heretic king," in sunk relief. The face is clearly a portrait, and was intended to serve as a model for the sculptors in the new capital of Khut-en-aten. From Tell-el-Amarna, XVIIIth dynasty.

9. A group of wooden figures representing men ploughing with oxen. From a tomb at Al-Barshah. XIIth dynasty.

10. A group of painted wooden figures representing a company of men winnowing corn. From a tomb at Al-Barshah. XIIth dynasty.

11. Bronze figure of Khensu Nefer-hetep, inlaid with gold. This god was a popular favourite at Thebes about B.C. 1000, and he was believed to drive away evil spirits and cast out devils. A very rare bronze. From Thebes. XXth or XXIst dynasty.

12. Alabaster pillow or head-rest of Seni, a high official, who flourished at Memphis under the Vth or VIth dynasty. Traces of the lapis-lazuli paste wherewith the hieroglyphs were inlaid are still visible. From Gîzah.

13. Alabaster writing tablet, or palette, of the scribe Seni, with hieroglyphs inlaid with lapis-lazuli paste. Vth or VIth dynasty. From Gîzah.

14. A collection of 778 scarabs, being a section of a large collection of which the greater part is already in the Museum. The scarabs, from which the greater part of the blue and green glaze has been removed by contact with the soil, belong to the period immediately following the XIIIth dynasty, including that of the reigns of the Hyksos kings. On the bases of many are cut the names, devices, figures of gods, monograms, &c. peculiar to the Hyksos Period, and showing the influence of Semitic ideas and beliefs. Chiefly from the neighbourhood of Sân (Tanis).

15. A collection of 95 scarabs belonging to various periods, and containing many very fine examples

of artistic cutting and design. From Upper and Lower Egypt. B.C. 1600–800.

II.—1. Complete cover of a massive limestone sarcophagus, on which are cut a long funerary inscription and figures of the principal gods of the dead. It was made for a high official called Aāhartas, and was found at Xoïs in the Delta. About B.C. 650.

2. Large mottled granite circular basin, nearly five feet in diameter, with the red granite pedestal on which it stood. It was placed in one of the courts of the great temple of Ptah at Memphis, and received the libations poured out to the gods. From the ruins of the temple of Ptah. Roman Period.

3. A collection of bronze figures of the late forms of Egyptian gods, examples of which are exceedingly rare:

i. Snake-headed god with left arm outstretched.
ii. An-Her, with the uræus of a king.
iii. A god with two faces, one of a ram and one of a jackal; the former is that of Rā, or Amen-Rā, and the latter that of Anpu (Anubis). The god wears the plumes of Amen.
iv. Harpokrates in the character of Ptah-Seker.
v. A moon god, with the head of Thoth in the Atef Crown.
vi. Horus Tema, *i.e.*, the slayer.
vii. Harpokrates or Horus the Child, as the new moon.
viii. Anubis with tambourine.
ix. Horus with the khepesh scimitar.

From the Oasis of Khârgah. Late Period.

4. A collection of miscellaneous objects in glazed porcelain, plaques, beads, cylinders, &c. XVIIIth to XXIInd dynasties.

5. A wooden sickle, with several of its original flint teeth still remaining in their groove. The inscription upon it proves that it was made for Prince Amen-nekht, who added to his name the royal prenomen of "Amenemhat." This object is probably unique. Found at Thebes in a cemetery belonging to the XI–XVIIth dynasties. XIIth dynasty.

III.—1. Red and black ware vase with a figure of a lizard or crocodile in relief around it. Rare. Predynastic Period.

2. Red and black ware vase with a figure of a serpent or eel in relief. Rare. Predynastic Period.

3. Red ware vase ornamented with figures of a hippopotamus in white outline.

4. Red ware flat-bottomed vase, with line decorations.

5. Long, narrow, red ware jar, with decorations in white outline. Rare.

6. A stone vase in the form of a hippopotamus.

7. Stone vase, with small base, and two "ear" handles.

8, 9. Mud figures of a woman lying back with her arms raised; the hair is dressed in curls. These may be intended for standing figures of the steatopygous class.

10, 11. Two baked mud figures of girls with bodies decorated and painted, and wearing headdresses of unusual form. Each clasps a wine jar with her left arm.

12. Painted baked mud figure of a man of the "canephoros" class.

13. Upper part of a mud figure of a woman carrying a pot on her head.

14. Rough figure of a man standing on some object.

Nos. 3—14 belong to the Predynastic or Archaic Period, and Nos. 1—14 all come from a very early cemetery in Upper Egypt.

IV.—1. Portion of a painted stele of an official, with the prenomen of Nebheprā (Mentuhetep).

2. Portion of a votive figure of King Nebheprā, which was dedicated by the *Ami-ast* priest, Nekht-en-Amen. On the back are four lines of text containing a prayer for the union of soul and body.

3. Portion of a stele with a representation of Nebheprā presenting wine to Hathor, Lady of Thebes.

The above three objects came from the temple of Mentuhetep at Thebes. XIth dynasty.

4. A massive red and yellow breccia bowl for holding unguents or food. This is one of a series of which three others are in the British Museum. From the tomb of Khent at Abydos. Ist dynasty.

5. Grey granite kneeling figure of Mentu-em-hat, the son of Nes-Ptah, a tribal chief, duke, mayor and phylarch, and fourth prophet of Amen-Rā, king of the gods at Thebes. The figure holds a tablet, on which the worship of Tem and Tem-Khepera is represented, and below the reliefs are cut several lines of a hieroglyphic version of a hymn to Rā. From Karnak. XVIIIth dynasty.

6. Blue glazed porcelain coffin and cover, and *shabti* figure of Amen-mes, a royal scribe, governor of the palace, overseer of the Treasury, and fan-bearer at the right hand of the king, who flourished about B.C. 1500. This coffin is of the shape and style of the large anthropoid coffins

which became fashionable under the XIXth dynasty. A unique object. From Dêr al-Baharî.

7. A massive hard-stone stele on which is cut an inscription in Meroïtic characters. Height 8 ft. 6 in. From the Sûdân. 1st century, A.D.

II.—Assyrian:—

A collection of 166 tablets and other antiquities, among which the following may be specially mentioned:—

I.—1. A tablet inscribed with a list of early Babylonian kings, the names being arranged in dynasties. It restores the order of the kings of the dynasty of Akkad, and settles the order of events between the fall of this dynasty and the rise of the dynasty of Ur (B.C. 2400), and supplies the names of 26 kings and rulers in Babylonia, whose names are not otherwise known. A valuable authority for the history of the period.

2. Tablet inscribed with omens derived from incidents that take place during the sacrificing of victims. Copied from a text of the reign of Melishikhu, B.C. 1220.

3. Tablet inscribed with a long Syllabary of the Second Class, giving the pronunciation and meanings of the Babylonian characters. From this tablet gaps in the Kûyûnjik Syllabaries may be restored.

4–6. Three explanatory lists of plants. From Kalat Sherkât.

7. An explanatory list of titles. From Kalat Sherkât.

8. Inscription from a brick of Sin-shar-ishkun, the last king of Assyria, which proves that he was a son of Ashur-bani-pal (B.C. 668–626).

9. Clay sealing with the seal of Naram-ilishu, an official of Dungi, B.C. 2400.

10. Clay cone with votive inscription of Ashduni-arim, king of Kish. B.C. 2000.

11–30. Twenty Babylonian letters relating to commercial matters. From Abû Habbah.

31–65. Thirty-five contract tablets of the period which lies between B.C. 2000 and the reign of Nebuchadnezzar II., B.C. 604.

66. Clay plaque with a figure of a musician playing.

67. Bronze foundation cone of Ur-nina, patesi of Lagash, about B.C. 3000.

68. Boundary stone of the Kassite period, from which the inscription has been erased.

69. Slab with a copy of the Standard Inscription of Ashur nasir-pal, B.C. 860.

70. A group of terra-cottas and bronzes, the latter including a plaque for exorcising the demon of sickness.

71. A miscellaneous collection of commercial tablets.

II.—1. Clay cylinder inscribed with the copy of a charter granted by Kuri-galzu I., a Kassite king about B.C. 1400. The charter conferred land and offerings of corn, oil, and dates upon a goddess.

2. Foundation cylinder of Nabonidus, King of Babylon, B.C. 555–538, recording the restoration of E-Babbara, the great temple of the Sun-god in Sippar. The inscription contains important variants of the texts already in the Museum. From Babylon.

3. A collection of about 115 contract tablets and accounts of the period of the First Dynasty of Babylon, about B.C. 2000; they are fine examples of this class of document. From Southern Babylonia.

III.—1. A bronze lamp, with seven wick-holders. From Northern Mesopotamia. Late Period.

2. A bronze adze. Early period.

3–5. Three terra-cottas, *i.e.*, a plaque and two figures of Babylonian goddesses. From Southern Babylonia.

6–9. Four terra-cotta bowls, which were used for divining purposes, with Mandaïtic inscriptions of a magical character. Probably from Tell Ibrahîm.

10–15. Six clay sealings of jars. From Babylonia. About B.C. 2000.

16–135. A collection of 120 tablets and fragments of tablets, inscribed with contracts, deeds of sale, loans, &c. From Senkerah, the site of the ancient city of Larsam. Period of the First Dynasty of Babylon, about B.C. 2000.

136–170. A valuable collection of 40 tablets, being supplementary to a collection of similar documents already in the Museum. The inscriptions deal with the sale and transfer of property, the division of an inheritance, deeds of gift, sales of slaves, leases of house property, &c. From Warka, the site of the ancient city of Erech. Era of the Seleucid 2nd and 3rd centuries before Christ.

171–3,220. A large collection of 3,050 tablets inscribed with texts dealing with temple accounts, agricultural and business receipts, lists and memoranda for incorporation into the larger tablets on which summaries of all temple properties were drawn up. From Tell Lo, Drehem and other sites, B.C. 2500–2000.

IV–1. Upper part of a bronze figure of a Sumerian priest-king, perhaps Gimil-Sin or Kudur-Mabug.

2–3. Two cones of Galu-Babbar, patesi of Umma, recording the dedication of a temple.

4–7. Four cones of Gudea, patesi of Lagash, B.C. 2400.

8. Plaque with a nude figure of a goddess.

9–11. Three Sumerian religious texts of the early Babylonian period.

12–14. Three Babylonian Letters of the time of Khammurabi. About B.C. 2000.

15–114. A collection of one hundred tablets of the Period of the First Dynasty of Ur. About B.C. 2000.

115–355. A miscellaneous collection of tablets and fragments: 44 are fragments of tablets of accounts, 43 are case-tablets, and 154 refer to ordinary business matters.

356–383. A collection of 28 Neo-Babylonian contracts of the reigns of Nabonidus, Darius, and Cambyses.

384–825. A collection of about 442 small account tablets, receipts and memoranda, and six dockets.

826. Cappadocian tablet recording the sale of 12 *gan* of land for 2 talents and 30 manehs of silver. The seal impressions are valuable for dating purposes. Before B.C. 2000. [No. 108,924.]

827. Case-tablet, unopened, with seal-impressions, containing a letter from Tutu-nasir, the son of Imlik-ilu, a commander of royal troops. Period of the First Dynasty of Babylon. [No. 108,962.]

828. Fine Neo-Babylonian tablet recording the sale of certain landed property in Nippur, in the presence of 13 witnesses, on the 23rd day of Adar, in the 14th year of the reign of Nebuchadnezzar II., *i.e.*, B.C. 618. [No. 108,935.]

829. Tablet recording the sale of landed property at Erech, on the 8th day of Tebet, in the 16th year of Kandalanu, King of Babylon, *i.e.*, B.C. 631. Documents belonging to this reign are uncommon. [No. 108,858.]

830. Marriage contract, with the names of 8 witnesses, dated in the reign of Ammi-zaduga, King of Babylon, about B.C. 2060. In it the penalty for breach of contract by the woman is drowning, and by the man, a fine of two manehs of silver. [No. 108,901.]

831. Tablet recording the division of certain property into five shares, and attested by 14 witnesses. Dated in the reign of Rim-Sin, King of Larsam, about B.C. 2200–2150. [No. 108,902.]

832. Deed recording the purchase of Shad mami, a female slave, by Adda-Kalla, for 4½ shekels of silver, in the 7th year of the reign of Bur-Sin I., about B.C. 2350. [No. 108,908.]

833. Two case-tablets recording the adoption of Sin-rimeni, by Ana-pâni-ili and his wife Kubbutum, in the reign of Samsu-iluna, the son of Khammu-rabi, King of Babylon, about B.C. 2145. [Nos. 108,904 and 108,906.]

834. Tablet recording the purchase of a female slave by a priestess of Marduk for two manehs of silver, in the reign of Samsu-iluna, about B.C. 2145. [No. 108,909.]

835. Tablet recording the renting of a house from Bau-khegalli by Kunnutum, at a rent of half a shekel per annum, in the reign of Samsu-iluna, about B.C. 2145. [No. 108,910.]

836. Tablet recording a loan of grain in the eighth year of Cyrus, *i.e.*, B.C. 530. [No. 108,911.]

837. Babylonian letter addressed by Ibni-Amurru to his sister asking her to send one of his tenants and two other men with him, apparently to bear witness in a dispute which had arisen about certain property. About B.C. 1900. [No. 108,883.]

838. Letter addressed to a certain Izannia by an unknown writer, who assured him that the contents of a letter which he had received from Izannia were "not pleasing to God." About B.C. 2000. [No. 108,890.]

839. Babylonian letter from Shamash-nishu to a person not named, with instructions about the irrigation of certain land near the Sakilatum Canal, from the mouth of which obstructing soil had been removed. About B.C. 2200. [No. 108,887.]

840. Babylonian letter from Etilka-Sin and Sin-ishmeani to a lady, instructing her to bring her "tablet" with her, probably for production at the hearing of the law suit to which reference is made in the letter. About B.C. 2200. [No. 108,898.]

841. Letter from the wealthy usurer Tarribum to Babâ, with instructions concerning certain grain. About B.C. 2200. [No. 108,896.]

842. Account-tablet with an inventory of the flocks and herds being reared on temple property in the neighbourhood of Lagash. Dated in the 7th year of Bur-Sin, King of Ur, about B.C. 2350. [No. 108,954.]

843. Account-tablet dated in the reign of Dungi, King of Ur, about B.C. 2375. [No. 108,944.]

844. Account-tablet containing a list of various classes of men and women who were probably temple servants. Drawn up at Lagash in the reign of Urukagina, about B.C. 2800. [No. 108,956.]

845. Tablet containing a list of victims, or sacrifices for various gods, including the deified kings of Ur, Dungi and Gimil-Sin. About B.C. 2300. [No. 108,958.]

III.—*Presents.*

I.—1. A baked terra-cotta barrel cylinder inscribed with a summary of the conquests of Sargon II., King of Assyria, from B.C. 721–705.

2. Portion of an Assyrian relief from the palace of Ashur-nasir-pal, King of Assyria, B.C. 860–825.

3. A group of seven terra-cotta bowls inscribed with magical texts written in late Hebrew and Mandaitic. About A.D. 200.

4. Alabaster vase of the late period.

5. Three small figures of the Mother-goddess commonly called the "Syrian Venus."

6. Six bronze figures of the Babylonian Period from Tell Lo. About B.C. 3000.

7. Three Sumerian stone cylinder seals. Early Period.

8. A Babylonion cylinder seal. Early Period.

9. Seven hæmatite cylinder seals (1 broken).

10. Seven cone seals.

11. Eleven Sassanian gems on which are cut figures of animals, birds, &c.

12. Three Gnostic gems, one bearing a magical name.

13. A bronze bull. Late period.

14. A miscellaneous group consisting of a contract tablet, an inscribed fragment, a crystal cylinder seal, a cast of an inscribed object, and a fragment of a brick.

Bequeathed by H. F. Blosse Lynch, Esq.

II.—1. A collection of maps of the Sûdân and Egypt showing the positions of the principal Coptic monuments therein.

2. A collection of miscellaneous papers on the subject of Coptic churches.

3. A collection of photographic negatives, drawings, &c. of Egyptian tombs at Al-kâb in Upper Egypt.

Presented by Somers Clarke, Esq., F.S.A.

4. A glazed porcelain sceptre symbolic of "serenity." From Napata. About B.C. 720.
Presented by the Right Hon. the Earl Kitchener.

5. A small Egyptian basket. From Thebes.
Presented by Mrs. W. Edwards Miller.

6. Upper part of a wooden figure of Horus.
Presented by Herbert Ingram, Esq.

7. Part of an alabaster jar inscribed with the name of Per-ab-sen, a king of the IInd dynasty.
Presented by W. L. Nash, Esq., M.D.

8. A Babylonian gate-socket on which are cut the name and titles of King Gudea.
Presented by Sir John R. Ellerman, Bart.

9. Stele of Antef-nekht.
Presented by A. Gardiner, Esq., D.Litt.

10. A gold ring bearing the name Patpep.
Shabti figure, late period.
Fragment of a wooden figure.
Bequeathed by Mrs. E. B. Ede.

11. Two mud balls, with marks upon them. Early Period.
Presented by H. E. Peet, M.A.

12. A fine bronze figure of Osiris. XXVIth dynasty.
A fine bronze figure of Isis. XXVIth dynasty.
Presented by the Countess Bathurst.

13. A fine alabaster Egyptian bowl. Ancient Empire.
Presented by H. L. Hansard, Esq.

14. A blue glazed figure of an Egyptian woman.
Fine bronze razor. Period between the XIIIth and XVIIth dynasties.
A painted wooden coffin, of unusual shape and decoration, with one line of inscription of the usual character. Found at Thebes. Period between the XIIIth and the XVIIIth dynasties.
Presented by the Right Hon. the Earl of Carnarvon.

15.—1. Terra-cotta lamp on a stand.
2. Two pieces of Coptic cloth.
3. Specimens of glazed fragments.
4. Vase with spout and handles.
5. Stocking and sandal.
6. Small stocking and sandal.
7. Coptic cap.
8. Coptic hair net.
9. Coptic doll.
10. Coptic bag.
11. Coptic shoes.
12. Coptic book-binding.

13. Lamp.
14. Lamp with places for four wicks.
15. Cut leather shoe ornaments.
16. Bags of seasoning ingredients, salt, cummin, coriander.
18. A small stele.
19. A mummied ibis from Abydos.

Presented by the Egypt Exploration Fund.

16—1. Topographical Map of Egypt, Scale 1 : 50,000, 2nd edition, sheets :—

N.E ii., 1.	N.W. v., 2.
N.W. vi., 2.	N.W. vi., 1.
S.W. ix., 2.	S.E. v., 1.
S.W. x., 2.	S.W. vii., 2.
S.W. xiii., 1.	S.W. viii., 1.
S.W. xiii., 2.	S.W. xi., 1.

Presented by the Director of Surveys, Egypt.

17.—Topographical catalogue of the private tombs at Thebes, by A Gardiner.

Presented by Robert Mond, Esq.

18.—A collection of pamphlets dealing with early attempts to decipher Egyptian hieroglyphs :—

1. Palin, Lettre sur les Hiéroglyphes, 1802.
2. Belzoni, Description of an Egyptian Tomb, 1821.
3. Champollion (le Jeune), Lettre à M. le Duc Blacas, Paris, 1824.
4. Champollion – Figeac, Lettre à M. le Duc Blacas Paris, 1826.
5. Seyffarth, Replique aux Objections, Leipzig, 1827.
6. Prospectus of *Les Monuments de l'Egypte*. Paris, 1831.
7. Sotheby's *Catalogue* of the Barker Antiquities. London, 1833.
8. Sotheby's *Catalogue* of the Burton Antiquities. London, 1836.
9. Salvolini, Campagne de Rhamsès-le-Grand. Paris, 1835.
10. Williams, Essay on Hieroglyphics. London, 1836.
11. Lepsius, Sur l'Ordre des Colonnes – Piliers en Egypte. Rome, 1838.
12. Lepsius, Notice sur deux Statues. Rome, 1838.
13. Analise des Inscriptions (2 copies).
14. Simonides. A brief description. London, 1860.

Presented by the Rev. G. Horner M.A.

19.—Bulletin of the Metropolitan Museum of Art, Nos. 9—12.

Presented by the Direction, New York.

E. A. Wallis Budge.

Department of Greek and Roman Antiquities.

I.—*Arrangement.*

1. *The Sculpture Galleries.*—In the Elgin Room a reconstruction of the frieze and cornice of the Erechtheum has been completed; casts of fragments of the frieze have been mounted against a background of black marble and combined with slabs of the architrave and cornice.

The Ionic capital of the archaic Temple of Ephesus, dismantled last year, has been restored, with two newly-fitted fragments, and replaced. In the Mausoleum Room three slabs of the cornice from the Temple of Athena Polias at Priene have been completed with the aid of casts from Berlin. A newly-acquired sarcophagus front and two lions' heads have been mounted in the Mausoleum Room passage.

A number of sculptures and casts of sculpture have been removed to the King Edward VII. Galleries and set in position on the staircase. Two casts of large Romano-British reliefs have been temporarily mounted on the wall of the Gallery of Casts, and other re-arrangements have been made.

2. *The Upper Galleries.*—A re-arrangement of sherds and vase fragments of various periods, in drawers, has been carried out in the Second Vase Room. The unexhibited lamps have been set out in drawers in the Fourth Vase Room according to the order of the Catalogue. In the Bronze Room some of the unexhibited bronzes have been re-arranged. A finding list of bronzes was compiled, and the finding lists of vases and terracottas revised.

The section dealing with Public Games in the Exhibition of Greek and Roman Life has been recomposed and rearranged; and the section dealing with the Theatre has been remounted. The renumbering and repainting in the Terracotta Room, after the repapering carried out last year, has been completed.

The publication of the Catalogue of Lamps was completed. Vol. I., Part I., of the Catalogue of Vases was completed in proof to the end of the Mycenaean Section; Vol. V. of the same catalogue was completed in manuscript. The volume of Select Bronzes was completed in proof, and progress was made with the Catalogue of Silver Plate, with the Greek Inscriptions, and with the revised edition of Vol. I. of the Catalogue of Sculpture. The collection of photogravures of select Marbles and Bronzes was published, and the Postcard series was largely increased.

Moulds have been made of three slabs of the Frieze and part of the Ilissos from the West Pediment of the Parthenon; of one head from Ephesus, and of part of the cornice of the Mausoleum. The storecasts of the Athena and Poseidon of

the Parthenon west pediment have been re-mounted and re-moulded; casts from the Nereid Monument have been repaired. Thirty-nine pieces of sculpture and fragments and three inscriptions have been mounted on stone pedestals; one medallion bust has been fixed in the Roman Gallery; one alabaster statuette, six gems, forty-four bronzes, and twenty-one terracottas have been mounted on wooden bases. Sixty-nine vases and three series of vase fragments, eleven terracottas, seventeen bronzes, three objects of alabaster, one of gold and one of glass have been cleaned and repaired. 146 objects were registered and 813 numbered; 142 labels were written and 244 printed.

The number of visits to the Departmental Library and Students' Room for purposes of research was 574; there were 992 other visits to the Staff for enquiry or on departmental business, and 2,138 attendances of students of art and architecture in the Sculpture Galleries.

II.—*Acquisitions.*

I.—*Sculpture in stone or marble.*

1. Marble altar dedicated to Hercules Augustus by Primigenius Iuvencianus, keeper of the marbles of the Emperor Vespasian; in front is carved in low relief the club and lionskin of Hercules, at the sides the cup and bow and quiver. Ht. 22¼ in.

Found in April, 1737, at the marble wharf (La Marmorata) on the bank of the Tiber at Rome. *C.I.L.* VI. 301.

2. The front of a marble fluted sarcophagus, of the type called *Lenos*, with two lions' heads, with rings. L. 5 ft. 2 in.

3. Marble portrait bust, probably of 1st cent. A.D., in high relief within a medallion formed by an oak wreath.

4. Marble sepulchral cippus dedicated by Valeria Donata to her husband Tiberius Claudius Corinthius and herself. Ht. 28¾ in. Found about 1731 at the Capene Gate, Rome. *C.I.L.* VI. 14,979.

5. Inscribed marble sepulchral chest of Plotia Lesbiana, with lid; on each side of the inscription are dolphins. *C.I.L.* VI. 24,339.

6. Inscribed marble sepulchral chest of Nicephoros, with lid. This is the missing original from which the modern inscription *C.I.L.* VI. 35,916 is copied.

7. Inscribed marble sepulchral chest of Cn. Cornelius Secundus; around the inscription is a swag of foliage suspended from masks of Ammon.

8. Inscribed marble sepulchral chest of M. Vipsanius Primigenius.

9. Two marble brackets with acanthus and palmette decoration. Found at Ostia.

10. Two (modern) reliefs of trophies; brought from Rome, 1754.

11. Marble sepulchral urn, fluted.

Nos. 1—11 were brought from Rome to England about the middle of the eighteenth century and are said to have been once the property of General Sir H. T. Montresor (1767–1837) of Denne Hill, Dover.

12. Marble stele with pediment and acroteria; the lower part broken away. In the centre is a relief of Zeus Stratios of Labranda many-breasted and holding spear and shield, with a woman (Ada) on his right and a man (Idrieus) on his left, both worshipping. Ht. 1 ft. 5½ in.

Found in 1868 near the Temple of Athena Alea, Tegea. *I.G.* V. 2, No. 89; *Mon. Piot.* XVIII. p. 145 ff.; Roscher, *Lexicon* s. v. *Stratios*, col. 1548. Idrieus succeeded Artemisia, widow of Mausolus of Halicarnassus, in 351 B.C., and died 344 B.C. Ada, sister of Mausolus and Idrieus, reigned in Caria 344–340 and 334–323 B.C. In view of the fact that Scopas, who built and decorated the temple at Tegea, was afterwards employed on the Mausoleum of Halicarnassus, it has been suggested (*Mon. Piot, l.c.*) that the relief is the work of one of Scopas's assistants on his return from Asia. Cf. an inscribed base at Delphi published in *Bull. de Corr. Hell.* XXIII., p. 384.

13. Basalt slab, having on one side a relief of the upper part of a figure wearing a radiate crown and traces of a second figure; on the side and back an inscription of King Antiochus, of Commagene. Ht. 2 ft. 7 in. From the banks of the Euphrates, near Samosata. Published in *J. H. S.*, XVIII., pp. 312 ff.; compare a relief published by Humann-Puchstein, *Reisen in Kleinasien*, pp. 368 ff. *Bequeathed by the late H. F. B. Lynch, Esq.*

14. Alabaster group of Aphrodite and Eros; Aphrodite stoops to untie her sandal, her left hand resting on a steering paddle, which is supported by a rock; against this rock crouches a sleeping Eros. The group has preserved considerable traces of its original colour; red drapery, black eyebrows, gold belts and wings. Ht. 10¼ in. Found near Byblus.

15. Marble fragment of relief showing the head of an actor wearing a mask; the eyes and mouth appear through the apertures of the mask. *Presented by L. C. R. Messel, Esq.*

16. Steatite flat-bottomed bowl, the sides carved in the form of six petals. From Crete. Hall, *Aegean Archaeology*, p. 66, fig. 11.

II.—*Gems.*

17. Chalcedony scarab, with intaglio design of an Oriental monarch and a rampant lion; between them a dog; above, disc and crescent. From Halicarnassus.

18. Chalcedony group carved in the round; on an acanthus base is a hare captured by an animal, now missing, except for

one claw, perhaps that of an eagle. From the neighbourhood of Smyrna.

III.—*Gold.*

19. Crescent pendant, with chain, set with three garnets. 1st or 2nd century A.D. Found near Taormina, Sicily.

20. Ring with flat oval bezel on which is incised a design of Artemis.

21. Double ring; each ring is set with a sardonyx, and at the junction is an oblong paste.

22. A series of ear-rings of the 3rd century A.D., from Samsun; also a finger-ring with a sardonyx intaglio of a parrot and ear of corn.

23. A series of beads and pendants in gold, jasper, and carnelian, including two beads in the form of hands clasping breasts. Found with the Mycenaean treasure said to have come from Aegina (*Cat. of Jewellery*, Nos. 683–768) and detached from it at the time of finding.

IV.—*Lead.*

24. Votive figurine of horseman with floating chlamys.

V.—*Bronze.*

25. Primitive statue of swordsman, wearing tunic, corselet, and gorget, greaves, and crested cap. From Sardinia. Ht. $10\frac{1}{2}$ in.

26. Winged figure, of Assyrian type, from the rim of a large lebes. Length $6\frac{1}{4}$ in. From Olympia; 7th century B.C. Cf. *Olympia, Bronzen*, pl. 44, Nos. 783, 784; *Bull. de Corr. Hell*, XII., p. 12; Perrot-Chipiez, *Histoire de l'Art*, II., p. 584; and an example from Armenia in the Assyrian Room (No. 242).

27. Statuette of Hephaistos, wearing the chiton exomis and peaked cap, about which is a delicately executed laurel wreath; compare heads of Cabeiros on coins of Lampsacus (B.M. Catalogue of Greek Coins, Mysia, pl. XIX. 3). From Elis. Ht. $5\frac{1}{4}$in.

28. Statuette of a goddess (so-called Athena Neith) with the snake head-dress, the right hand holding a lance. Ht. $8\frac{3}{4}$ in. with the original pedestal. From the Fitzhenry Collection (Lot 557); *Burlington Fine Arts Catalogue of Greek Art*, p. 36, pl. 41.

29. Small statuette of draped female figure with arms extended; the sprue (or waste material of the casting) still adheres to the feet. *Presented by E. F. Bosanquet, Esq.*

30. Helmet of the so-called Island type, with square face-aperture and long cheek pieces; along the edge runs a border of silver studs and palmettes, and on each cheek piece remain traces of a silver relief of a horseman. From the Alpheus, Olympia; cf. *Olympia, Bronzen*, IV., pl. 62, no. 1030; *Arch. Anzeiger*, XX., p. 18.

31. Steelyard with two suspension hooks and a double graduation, from zero to 11 lbs. by ounces and from 8 to 38 pounds by quarter pounds. The suspension hooks terminate in snakes' heads, the chains in eagles' heads; the weight consists of a bust of Silenus, wreathed and wearing a nebris, treated with great vigour. Found near Smyrna.

32. Terminal ornament of a chariot pole, consisting of two grotesque heads tied back to back, with projecting thumbs below; the eyes have been inlaid with silver. Cf. *Bronzes de la Bibl. Nat.*, 1979.

33. Flat dish with broad rim and centre boss; the handle terminates in the figure of a panther issuing from a calyx. Found in Palestine.

34. Ladle, the handle terminating in a dog's head. From Orvieto.

35. Lamp with two nozzles. From North Syria.

VI.—*Vases.*

36. Series of Minoan sherds from Kahun, Egypt. *Presented by Prof. W. M. Flinders Petrie.*

37. Sherd of Minyan ware. *Presented by A. J. B. Wace, Esq.*

38. Series of sherds of early fabrics from Senirdje, S.W. Asia Minor; cf. *B.S.A. Ann.*, XVIII., pp. 80 ff. *Presented by H. A. Ormerod, Esq.*

39. Two-handled cup of late Trojan bucchero fabric; from Troy. Formerly in the Calvert and Franks Collections. *Presented by Sir C. H. Read.*

40. Small two-handled cup of sub-Mycenaean style, with decoration of dots and rosettes; from Athens. *Presented by J. D. Beazley, Esq.*

41. Large amphora of Dipylon Geometric style: the principal band of ornament consists of a frieze of six chariots and eight armed men on foot. On the handles are snakes in relief. Ht. 2 ft. $3\frac{1}{2}$ in.

42. Kylix of Boeotian fabric on a high stem with decorations of nine flying birds, rosettes and zig-zags. Height $8\frac{1}{2}$ in.

43. Kylix of Vourva style: in the interior, a design of a kneeling spearman; on the exterior, a band of palmettes and lotos.

44. Amphora of Corinthian style: on the body, five friezes of animals with rays below; on each side of the neck panels containing a boar and a Sphinx respectively. Height, 1 ft. $5\frac{1}{2}$ in.

45. Jug of Etruscan bucchero ware: round the body, two bands of lions and Sphinxes in relief; a Gorgoneion medallion on each side of the handle, a lion on the back of the handle; incised bands of rosettes. Height, $12\frac{3}{4}$ in.

46. (*a*) Lekythos of transitional Attic style with decoration in opaque red and incision on black ground; design of Athena holding helmet and shield. Height, $8\frac{1}{2}$ in. (*b*) White lekythos, with design in black glazed outline; a youth leaning on a staff and a girl holding out a flower and a mirror.

These two vases were excavated from a tomb at Himera, Sicily, before 1870.

47. Amphora of green glazed ware; on the neck each side are medallions with reliefs of Eros holding birds and a warrior; on the body are raised bands of ornament. Height 14 in. Found at Selemieh, North Syria.

VII.—*Terracotta.*

48. Statuette of Pan seated on a rock, holding a drinking-horn, his head resting on his left hand. Height, $4\frac{3}{4}$ in. From Cyprus; cf. Winter, *Typen I.*, p. 221, No. 3.

49. Group of two draped standing women, one playing the double flutes, the other with a drum. Height, 7 in. From N. Syria.

50. Series of animal figurines and grotesque human heads, found near Smyrna. *Presented by Cyril van Lennep, Esq.*

51. Statuette of standing figure with unusual drapery, from Cyprus; cf. Fröhner, *Tyszkiewicz Coll.* pls. 30, 31. *Presented by H. Holmes Orr, Esq.*

52. Fragment of corrugated tile from the floor of the Palaestra of Olympia. *Presented by A. F. Somerset, Esq.*

53. (*a*) Pyramidal loomweight with two suspension holes. (*b*) Clay bell with bands of black paint on exterior. Both from Ephesus. *Presented by H. B. Nelson, Esq.*

VIII.—*Miscellaneous.*

54. (*a*) Wooden doll. (*b*) Wooden child's clapper. (*c*) Leathern slipper with covered toes and purple edging. (*d*) Similar slipper with purple embroidered rosette. (*e*) Similar slipper without toe-covering. (*f*) Fragment of silk embroidery. All from Antinoe. *Presented by the Egypt Exploration Fund.*

A. H. Smith.

Department of British and Mediæval Antiquities and Ethnography.

1.—*Arrangement, Cataloguing, &c.*

Prehistoric Saloon.—A special exhibition of flints from Northfleet, Kent, has been arranged in a desk-case; the exhibition drawers have been overhauled, and several additions made of flint and bronze implements.

Romano-British Section.—The exhibition drawers in the Central Saloon have been overhauled periodically; and plinths provided for labelling the pottery exhibited and in storage.

Anglo-Saxon Room.—Several groups of specimens exhibited on boards have been remounted and relabelled.

Mediæval Room.—The permanent labelling of the dials and mathematical instruments has been completed; a series of colonial seals cleaned, and extra plate-glass protection provided for three table-cases.

Glass and Ceramic Gallery.—The collection of Italian maiolica has been relabelled, and the exhibition cases in the ante-room dismantled, the specimens being exhibited elsewhere or stored in the King Edward VII. Galleries.

Gallery of Religions.—Coptic frescoes and six terra-cotta vessels from Egypt have been restored for exhibition; and three inscriptions from Egypt mounted. The Buddhist section has been re-arranged after the structural alterations, and 63 Gandhara sculptures cleaned.

Asiatic Saloon.—Two sections have been re-arranged to accommodate recent acquisitions, and the labelling of three standard cases of porcelain revised. Eight wall-cases were cleared for repairs to the glass, and the English porcelain removed temporarily into wall-cases. Three large Chinese box-bricks have been cleaned.

King Edward VII. Gallery (Ground floor).—The temporary exhibition of Sir M. A. Stein's Collection from Chinese Turkestan was partly arranged by the Department; and after the closing of the gallery, the standard cases for the Waddesdon Collection were transferred. The bays and cases in this gallery have been lettered, and a screen erected behind the Lohan pottery-figure.

Ethnographical Gallery.—Three large standard cases (containing Japanese armour, objects from Torres Straits and N. American dresses) as well as a wall-case, have been cleaned. Three wall-cases in the African section have been arranged, and the African and Polynesian sections labelled. Three stone idols from Tahiti and a series from Wallis Island have been exhibited.

American Room.—The re-arrangement and the permanent labelling of the various series of pottery have been continued.

Registration.—The registration of current acquisitions has been continued, and 3,072 objects have been added, including

ethnographical specimens. Numbers have been painted on 2,830 specimens and 758 permanent labels written.

Photographs to the number of 81 have been prepared in the Department for purposes of illustration and reference, and 34 photographic prints and 11 lantern slides made. Typewritten labels to the number of 538 have been cut and bordered; 39 mounting-boards covered with paper and two with velvet, and 1,784 objects mounted. There have been prepared 281 trays, tablets, pedestals, labels, frames, plinths and packing-cases, and several exhibition cases re-fitted. Further progress has been made with the classification and storage of photographic negatives and ethnographical documents.

The departmental offices were transferred to the White Wing in August, and the library re-arranged in newly erected book-cases and cupboards. A slip catalogue of books is in preparation. The ceramic library and stored pottery specimens have been removed to the King Edward VII. galleries.

Excavations were conducted in gravels at Rickmansworth, Herts, on 10 days in the autumn, and the Swansea meeting of the Museums Association was attended in July. A large collection of flints from Northfleet was classified and removed from Gravesend to the Museum, where type series were selected and despatched to 22 provincial museums, with portions of the Stone Age collection bequeathed by Mr. Richard Jones, of Welling. The inventory of ancient and foreign specimens in the Tower Armoury has been checked, and those sections removed to the Museum, where a selection has been made.

Publications.—Current additions have been made to the slip catalogue of Oriental pottery and porcelain, and the Catalogue of Renaissance and later gems completed. Further illustrations have been prepared for the Romano-British and Anglo-Saxon guides; and the photographs and text provided for series of pictorial postcards representing objects in the Department. A report of the excavations conducted in conjunction with H.M. Geological Survey in 1912 has been prepared and published in *Archæologia*, vol. LXV.

Students.—Two thousand eight hundred and seventy-three students and visitors have been received in the Department, and a demonstration given in the Prehistoric Room by a member of the staff.

2. *Acquisitions.*

(1.) *Prehistoric and Early British Antiquities:—*

(*a*) *Stone Age.*—A large series of palæolithic implements and worked flakes chiefly from gravel-pits at Kennet and Kentford, near Newmarket, and from the surface at Tuddenham, near Mildenhall, Suffolk. *Presented by C. R. Jennings, Esq.*

Seven palæoliths from gravel near Grove Park Station Mottingham, Kent. *Presented by Harry Muller, Esq.*

Flint chopper of quadrant form from Southfleet pit, Northfleet, Kent. *Presented by J. Reid Moir, Esq.*

Series of 139 flint specimens excavated by a committee of the East Anglian Prehistoric Society at Grime's Graves, Weeting, Norfolk.

Large flint core and two implements made from thick flakes, from the surface near Grime's Graves. *Presented by Miss Nina Layard.*

The flint specimens illustrated in *Archæological Journal*, LXX., being a selection from a large number excavated by the donor at Peppard Common, Oxon. *Presented by Dr. E. A. Peake.*

Two flint implements of unusual form and uncertain date, from the surface at Winterslow, Wilts. *Presented by Dr. T. G. Longstaff.*

Two flake implements of local chert from Portland. *Presented by G. J. B. Fox, Esq.*

Flint celt with cutting-edge polished, from Washing Bay, Lough Neagh, N. Ireland. *Presented by the Rt. Hon. the Viscount Charlemont.*

Half a polished flint axe-hammer, with a natural perforation adapted for use, found near Gloucester. *Presented by Dr. Corner.*

(*b*) *Bronze Age.*—A hoard of 48 pieces, including winged and socketed celts, gouge, chape, sword-fragments and copper cake, found at Addington, Surrey. *Presented by Sir Hercules Read, LL.D.*

Looped and socketed spear-head found on Brighton Down, Sussex.

Cylindrical cinerary urn with lattice pattern on body and depressions below the lip, found at Icklingham, Suffolk. *Presented by the Rt. Hon. the Viscount Iveagh.*

Cinerary urn, covered with finger-nail indentations, found at Brantham, near Manningtree, Essex. *Presented by John R. Keeble, Esq.*

(*c*) *Early Iron Age.*—Urn of reddish ware, with conical bosses at irregular intervals between incised panels on the shoulder, from Loudwater, High Wycombe, Bucks. *Presented by Sir Hercules Read, LL.D.*

Pottery fragments of an urn with debased fret pattern and of a larger vessel with zones of incised ornament, found at Deal, Kent, and described in *Proceedings of the Society of Antiquaries*, XXVI., 129. *Presented by S. Hazzledine Warren, Esq., F.G.S.*

Iron lance-head with round hole at base of blade, found at Scarborough, Yorks. *Presented by Thos. Boynton, Esq., F.S.A.*

(*d*) *Foreign.*—Thirteen flint and chert implements of palæolithic forms, from the surface near Samaria, Palestine. *Presented by Herbert E. Clark, Esq.*

A large series of flint, quartz, chert, and sandstone implements and flakes from the Western Sahara. *Presented by Dr. R. J. Fromholz.*

Five implements of rock-crystal and one of chert from various sites in Ceylon. *Presented by E. J. Wayland, Esq.*

A large series of pygmy rock-crystal implements collected by the donor in the province of Uva, Ceylon. *Presented by Principal Hartley, of Colombo.*

Two bronze halbert-blades with archaic Chinese inscriptions. *Presented by S. M. Eveleigh, Esq.*

Four Danish urns of the Early Iron Age, from the Jensen Collection.

Gold bar and four Celtic coins from the Vetulonia find, Etruria, about 150 B.C.

(2.) *Romano-British :—*

Two pottery vases found at Burnham, Bucks.

Bronze key with barrel and flat looped handle, said to be from Thames Ditton.

Massive bronze handle of key, found near Canterbury. *Presented by Col. Copeland, F.S.A.*

Bronze padlock in the form of a horse, found at South Gate, Chichester. *Presented by R. Martin Holland, Esq.*

(3.) *Anglo-Saxon and Foreign Teutonic :—*

Bronze "hand-pin" of the 7th or 8th century, said to have been found on Brighton Down, Sussex.

Two bronze buckle-plates of the Visigothic period, from the province of Jaen, Spain. *Presented by Horace Sandars, Esq., F.S.A.*

(4.) *Mediæval and Later :—*

(a.) *British* —Amber matrix of seal of the 13th century, with spring, fish, bird and lion.

Brass astrolabe for the latitudes of Berwick, Newcastle, York, Nottingham, Oxford and Dover, 14th century; described in *Archæologia*, LII., 75. *Presented by Maurice Rosenheim, Esq., F.S.A.*

Ivory leaf of writing tablet, with standing figures of the Virgin and Child with St. Peter and St. Eanswith, 14th century. *Presented by the National Art Collections Fund.*

Alabaster panel of St. Catharine refusing to sacrifice to an idol, with traces of colour, from Yarnton Church, Oxon (*Soc. Anti . Cat. Alabaster Exhibition*, No. 60).

Cast of a tilting-helm in Birling Church, Kent, known as the Nevill Heaume, about 1490. *Presented by F. H. Cripps Day, Esq.*

Crossbow bolt of the 15th century. *Presented by C. T. Smithers, Esq.*

Bronze bell engraved with tau-cross, found at Boxgrove, Sussex. *Presented by A. W. F. Fuller, Esq.*

Contemporary cameo portrait of Queen Elizabeth on onyx.

Silver badge of horse-shoe form with gryphon and SR R engraved, with chain attached, from Sheffield, date about 1600 (Treasure Trove).

Heraldic signet-ring, with engraved legend, *Tried with the giver's love the gold but drosse will prove*, said to have been found at Grittleton, near Chippenham, early 17th century.

Twenty pieces from a jeweller's stock of the early 17th century, found in London. *Presented by Rt. Hon. Lewis Harcourt, M.P., D.C.L.*

Gold watch, the cover chased with shells and flowers, 18th century. *Presented by Mrs. Crawford Hayes.*

Thirty-one colonial and official seal-matrices, now obsolete. *Presented by the Lord President of the Council.*

(b.) *Foreign.*—Italian spur and two padlocks of the 17th century.

Two wafering irons, central Italian, early 16th century. *Presented by Dr. Hildburgh.*

A sporting crossbow of the 17th century. *Presented anonymously.*

Pair of German pewter altar cruets, marked A and V, early 19th century. *Presented by C. Lund, Esq.*

(5.) *Ceramic and Glass Collections:*—

(a.) *Oriental Wares.*—Four large pottery box-tiles with diaper and architectural decoration, of the Han dynasty.

Glazed pottery pillow, with Chinese inscription, dated A.D. 1071.

Four glazed pottery specimens of the Sung or Yüan period.

Two blue and white Chinese plates and Japanese pottery vase with mark of the Ota factory. *Presented by Capt. K. Dingwall, D.S.O.*

Celadon-ware bowl with 8-pointed star, Chinese or Siamese, 13th century. *Presented by Rev. Canon E. H. Fellowes.*

Celadon-ware dish spoilt in firing, and series of pottery vessels from Sawankhalok, Siam.

Chinese porcelain wine-cup with mark of the Ch'êng Hua period (1465–87). *Presented by F. C. Harrison, Esq.*

Two vases of pottery and porcelain from ruins of pagodas in Ayuthia, the ancient capital of Siam, late Ming period. *Presented by Jas. McCarthy, Esq.*

Pottery bowl and cup, the former with long inscription of the 13th century, from Rhages, Persia. *Presented by H. van den Bergh, Esq.*

(b.) *Continental.*—Part of a large pottery dish with figure of horseman in lustre, found on the site of a pottery at Valencia. *Presented by M. Stora.*

Porcelain saucer, probably Limoges, marked C in blue. *Presented by W. S. de Winton, Esq.*

Porcelain coffee-pot with floral design, probably early Meissen. *Presented by H. Green, Esq.*

Four dishes and two jugs of North Hungarian peasant pottery, 18th century. *Presented by E. Torday, Esq.*

Series of Balkan pottery vessels. *Presented by Miss M. E. Durham.*

Hispano-Mexican oval pottery dish with yellowish green glaze. *Presented by Sir William Crookes, O.M., P.R.S.*

(c.) *English.*—Pottery fragments with different glazes, found on the site of old potteries at Brislington and Crew's Hole, Bristol. *Presented by W. Pountney, Esq.*

Pottery group in an arbour, green glaze, 18th century.

Stoneware mug with silver mount, probably made by Dwight of Fulham about 1680, and pitcher-mould for making slipware dishes, inscribed—*William Bird made this mould in the year of our Lord* 1751. *Presented by B. T. Harland, Esq.*

Delft drug-pot found at the Mansion House, City of London. *Presented by G. E. Bullen, Esq.*

Pottery drug-pot, unglazed, found in Southwark *Presented by W. J. Pavyer, Esq.*

(d.) *Glass.*—Blue jug with threads on body and tooth-pattern below the handle, Roman period ; from the East.

Bottle and phial, both pale green, of the Roman period, from Crete. *Presented by Lady Brackenbury.*

Diminutive jug, blue with openwork threads, Roman period. *Presented by L. McCormick Goodhart, Esq.*

(6.) *Collection illustrating various Religions :—*

(a.) *Christianity.*—Bronze censer with scenes from the life of our Lord in relief, Byzantine, 6th–7th century.

Silver chalice inscribed in Greek with the names of Sergius and John, from Aleppo.

(b.) *Buddhism.*—Four Græco-Buddhist carvings. *Presented by Lieut.-Col. G. A. Dale.*

Bronze head of Buddha, from the Shwé Dagōn pagoda, Rangoon, about 16th century. *Presented by Mrs. Eustace Smith.*

Bronze head of Buddha with traces of yellow, obtained in Pekin. *Presented by Mrs. Florence.*

Four discs of clay and composition from the collection of the late Dr. Brighouse. *Presented by A. G. L. Gamlen, Esq.*

Three figures of wood, bronze, and alabaster, and a bronze head from Burma. *Presented by Miss E. M. M'Rae.*

Coloured wooden seated figure of Buddha, from Theebaw's palace. *Presented by Mrs. Greenhill.*

Five figures of wood and alabaster from Burma. *Presented by S. E. F. Jenkins, Esq.*

Marble standing figure with traces of paint. *Presented by Mrs. Winch.*

Four jade cylinders squared outside, Chinese ritual objects used in the worship of Heaven, first millennium B.C.

Brahmanism.—Marble panel with monster and two human figures in relief, on a corbel with elephant's head.

Series of Hindu figures and Jain Tirthankaras, of the 12th and later centuries. *Presented by Henry Oppenheimer, Esq., through the National Art Collections Fund.*

(7.) *Oriental and Ethnographical*:—

Europe.—Various articles of dress, musical instruments, and other objects from the Balkan States. *Presented by Miss M. E. Durham.*

A type-series of Cypriote textiles, together with specimens of pottery.

Asia.—Two gold belt-clasps, a fine collection of silver bowls and other vessels, and a series of weapons from the Malay States. *Collected by the late Hon. Martin Lister, British Resident at Negri Sembilan, and presented by the Hon. Adelaide Lister.*

Two sabres of Indian type; one inscribed "Taken by Sultan Mahmud of Ghazni from India to Afghanistan," the other "Usman, Ispahan." *Presented, on behalf of Mohammed Maghul Husain Khan, by Sir James Weston, K.C.I.E., C.S.I., through Capt. C. Watson Smyth.*

An Indian land-grant, on copper plates.

A pack of Indian playing-cards, made of ivory.

Two bronze figures of deer, from Western Asia.

A Saracenic lamp of Coptic type, from Egypt.

Oil-bottle, snuff-box, eye-shade and other objects from China. *Presented by Charles Lund, Esq.*

An oriental bronze mirror of mediæval workmanship.

An extensive ethnographical collection from the Philippine Islands.

Africa.—An important ethnographical series, illustrative chiefly of the Pagan religion of the Ibibio people of the Eket district of Southern Nigeria. *Presented by P. Amaury Talbot, Esq.*

A key, paint-brush, unfinished stone bowl and amber beads from graves of the Roman period at Lahun, Egypt. *Presented by the British School of Archæology in Egypt.*

A wizard's bag, containing medicines and charms, from the Embu of the East Africa Protectorate. *Presented by Lieut. G. S. J. Orde Browne.*

A silver comb, partly overlaid with gold leaf, from Lamu, being one of six made for the harem of Sultan Hamoud bin Mohammed of Zanzibar. *Given by Clarke Thornhill, Esq.*

A large series of obsidian flakes and implements, from a site until recently covered with thick forest at Njoro, East Africa Protectorate. *Presented by W. A. Tunstall, Esq.*

A series of ethnographical objects from the Uganda Protectorate. *Presented by Major Ashburnham.*

An ethnographical series, principally from the Swahili, Pokomo and Galla tribes of the East Africa Protectorate.

A series of domestic utensils from the Kikuyu and Kamba tribes of the East Africa Protectorate.

A collection of pottery pipe-bowls, from the Angas on the south-eastern slope of the Central Nigerian Plateau. *Presented by F. C. Fox, Esq.*

A carved ivory tusk, from Benin.

A series of stone axes, found on the surface; Northern Nigeria. *Presented by Henry C. Collyer, Esq.*

A large stone axe, regarded by the natives as a thunder-fetish, from Ninkada, Northern Nigeria. *Presented by the Rev. J. J. Crathorne.*

A series of stone celts from a number of localities in Northern Nigeria. *Presented by E. A. Langslow Cock, Esq.*

An ethnographical series from Northern Nigeria. *Presented by J. M. Fremantle, Esq.*

Fetish objects from the Makangara and Kamuku pagans of Northern Nigeria.

A state sword, formerly belonging to the chief of Apollonia, obtained by the late Mr. F. Swanzy about the year 1844. *Presented by Lieut.-Col. G. S. Parry.*

A series of quartzite implements and flakes, from an undisturbed bed of gravel near Accra, Gold Coast. *Presented by H. B. Popham, Esq.*

Two steatite heads from Mendi-land, Sierra Leone. *Presented by R. M. J. Baynes, Esq.*

Carnelian beads from Sierra Leone. *Presented by the Hon. A. C. Hollis, C.M.G.*

Oceania.—Three stone images from Tahiti. *Presented by E. L. Gruning, Esq.*

A stone figure from Easter Island and a lava figure from Hawaii. *Presented by Commander F. St. G. Brooker.*

A kiwi-feather cloak from New Zealand. *Presented by Mrs. H. J. Tozer.*

A ceremonial mace and a lime-spatula, both inlaid with pearl-shell, from Malanta, Solomon Islands. *Presented by Sir Everard im Thurn, K.C.M.G., C.B.*

A ceremonial figure in the form of a seated man, from the New Hebrides. *Presented by Sir Henry Evan James, K.C.I.E., C.S.I.*

A series of ethnographical specimens, chiefly from Fiji.

A series of masks and weapons from the Gulf of New Guinea, collected by the late Rev. J. Chalmers.

America.—A gold finger-ring of unusually fine workmanship, Ancient Mexican. *Presented by Miss Mary Grace Thornton.*

A series of stone figurines, ear-ornaments, beads, and other objects from Copan, Honduras, and a large silver pin from Patagonia. *Presented by Louis C. G. Clarke, Esq.*

Two harpoons, probably from Hudson Bay, and a shell spoon from Alert Bay. *Presented by Commander F. St. G. Brooker.*

A pair of turquoise mosaic ear-ornaments, from the Hopi; and a basket ornamented with feather-work from the Pomo. *Presented by W. Crewdson, Esq., F.S.A.*

A fine pottery head, probably part of a censer, in early Maya style. *Presented by Sir Henry H. Howorth, K.C.I.E.*

Two stone carvings and two pottery fragments in Maya style. *Presented by Alfred P. Maudslay, Esq., D.Sc.*

Plaster cast of an obsidian bowl with a human head in relief, and the name-glyph of Tizoc, the 7th Aztec king (c. 1482 A.D.) *Presented by Señor Adolphe Best.*

A stone statuette, ancient Mexican.

A series of painted pottery from graves in the "Chiriqui" region, with a few pieces from the Ecuadorian coast.

A collection of remarkably fine painted pottery, textiles, and ornaments, principally from very early graves in the Valley of Nasca, but also from other cemeteries on the Peruvian coast.

A series of unusually fine specimens of Inca pottery, collected at Cuzco.

A series of pottery fragments, plain and with impressed designs, from the province of Buenos Aires, Argentina.

An ethnographical collection from the Rio Igara Paranà, Rio Negro, Putumayo, and Ucayale.

Christy Collection.

During the year the Trustees have acquired by donation the following objects, which have been transferred to the Trustees of the British Museum :—

(1.) *Ethnography of Africa:*—

Two pottery vessels from the Shilluk of Renk on the White Nile. *Presented by G. W. Grabham, Esq.*

A bow, quiver, bag and other objects obtained from Somali hunters in the East Africa Protectorate. *Presented by R. B. Woosnam, Esq.*

A pierced stone, used in taking oaths, and a stone ear-ornament, from the A-Kikuyu, East Africa Protectorate. *Presented by the Hon. Charles F. Dundas.*

A native-made model outrigger canoe, of the type used at Malindi, though manufactured on the Comoro Islands, *Presented by T. A. Dickson, Esq.*

A copper jug of Arab workmanship, from Mombasa. *Presented by Stanley Sanderson, Esq.*

An A-Ngoni dancing-dress, from British Central Africa. *Presented by Fred A. Coe, Esq.*

A string of blue beads, from Nanji, Cameroons. *Presented by G. S. Hepburn, Esq.*

A wooden bull-roarer (*Oro*), obtained from the Ibadan people, Southern Nigeria. *Presented by L. J. Harris, Esq.*

Two wooden masks, obtained at Iju, Southern Nigeria. *Presented by Mrs. Lang.*

A series of quartzite flakes, from an undisturbed bed of gravel near Accra, Gold Coast. *Presented by Sir Hugh Clifford, K.C.M.G.*

A series of stone celts from the Gold Coast. *Presented by J. Dalrymple, Esq.*

An iron knife with inlaid handle, from Sierra Leone. *Presented by S. Desylla, Esq.*

Two iron rods used as currency, from Kanre Lahun, Sierra Leone. *Presented by the Hon. A. C. Hollis, C.M.G.*

(2.) *Ethnography of Asia:—*

A reed for a loom, modern Chinese. *Presented by the Rev. Dr. John Steele.*

A plaited grass band, from the Abor of Assam. *Presented by E. Denison Ross, Esq., C.I.E.*

A series illustrating the methods of native basket and lace manufacture, from Malacca. *Presented by Mrs. Bland.*

(3.) *Ethnography of Oceania:—*

A sketch in oils of a sacred enclosure, Hawaiian Islands. *Presented by Francesco P. del Mar, Esq.*

A wooden club from Tonga, one from Fiji, and two dance-clubs from Santa Cruz. *Presented by B. T. Lang, Esq., R.A.M.C.*

A wooden canoe-ornament, representing two fishing spirits (*Kesoko*), from Rubiana, Solomon Islands. *Presented by A. M. Hocart, Esq.*

An ovoid object of gypsum, found in an aboriginal grave at Tilpa, New South Wales. *Presented by J. Edge-Partington, Esq.*

(4.) *Antiquities and Ethnography of America*:—

An ethnographical series collected by Mrs. Cordelia L. M. Noble, of Nome, Alaska. *Presented by Mrs. E. Mathilde Claridge.*

A model totem pole, carved from shale, from Queen Charlotte Island. *Presented by Miss Adam.*

A wooden ceremonial mask from the North-west Coast. *Presented by St. George Littledale, Esq.*

A stone hammer, from Binscarth, Manitoba. *Presented by A. W. Simpson, Esq.*

A series of stone arrow-heads found in the Missouri Valley, as far down as St. Louis. *Presented by A. W. Westhorpe, Esq.*

Two fragments of ancient pottery, one with painted ornament, the other with impressed designs, from Coban, Guatemala. *Presented by C. Fleischmann, Esq.*

A series of stone implements and pottery fragments from Grande Carinage, Santo Domingo. *Presented by His Excellency Mr. Stephen Leech.*

A series of stone arrow-heads and a fragment of pottery, from Estancia La Blanca Grande, San Luis, Argentina. *Presented by Ronald E. Cotton, Esq.*

A number of stone arrow-heads from Patagonia. *Presented by J. Dalrymple, Esq.*

A raw-hide bag containing *maté*, from Paraguay. *Presented by J. Busch, Esq.*

C. Hercules Read.

Department of Coins and Medals.

I.—*Registration and Arrangement.*

1. *Greek Series:—*

Four hundred and ninety coins of the Greek series, recently acquired, have been registered and incorporated. Fifty-five coins, previously classed as uncertain, have been identified and incorporated in the collection. Four hundred and thirty-one casts and electrotypes have been incorporated in the collection of casts and electrotypes of coins not in the British Museum, in addition to several hundred casts of coins of Palestine which were obtained for study in connection with that volume of the Catalogue of Greek coins. A beginning has been made in the classification of Mionnet's miscellaneous sulphur casts.

The coinages of the Ptolemies, of Palestine and of Gades in Spain have been arranged, fresh heading cards inserted and fresh labels written; the cabinet of unidentified Greek coins has been re-arranged in uniformity with the card-index of types. Fresh heading cards have also been written and inserted in the coinages of Calabria, Samos, Lucania, Caria, Ionia, Pisidia, Cilicia, Lycaonia, &c., Galatia, &c., Cyrrhestica, &c. The imperial series of Ionia has been specially studied with reference to cultus-statues.

The MS. Bibliography of Greek Numismatics has been brought up to date; progress has been made with the Card Index of Coins arranged according to types; a terminal index of ethnics on Greek coins has been completed.

Several collections of coins and Sale Catalogues have been examined with a view to selection for purchase or donation.

2. *Roman and Byzantine Series:—*

Ninety-six coins, recently acquired, have been registered and incorporated. The collection of casts of coins not in the British Museum has been increased and arranged on the system of the coin collection.

The series of gold coins from Hadrian to Romulus Augustulus has been arranged in new cabinets and new heading cards written. The imperial series from Gallienus to Diocletian has been re classified to facilitate reference, and the series is being carefully studied with a view to a more scientific arrangement in accordance with the mint-marks on the coins.

Collections have been examined and selections made with a view to acquisition by purchase and donation.

The Bibliography of Roman Numismatics has been brought up to date.

3. *British and Colonial Series:—*

One thousand and seventy-one coins and medals, recently acquired, have been registered and incorporated.

A find of coins of Henry III. from Slype (West Flanders) has been examined and described and a selection made for purchase; selections for purchase have also been made from a hoard of pennies of Edward I. and II., found at Carsphairn (Galloway) and from a hoard of sixteenth century Scottish coins found at Ayr.

Collections have been examined with a view to selection for purchase by the British Museum.

The series of tradesmen's tickets has been re-arranged and increased by a recent donation.

4. *Mediæval and Modern Series:—*

One thousand three hundred and thirty-two coins and medals, recently acquired, have been registered and incorporated.

A large collection of European coins, chiefly of the Latin East, has been examined, and a numerous selection made which has been presented to the British Museum. Other smaller collections have been examined with a view to selection for acquisition by purchase or donation.

The series of coins of the Dukes of Athens has been expanded and new heading cards inserted. The transference of the Italian medals of the Renaissance to cabinets of a new pattern has been completed, and the series re-arranged and freshly labelled.

The Card Index of personal foreign medals has been completed, and an index of artists of this series has been made.

5. *Oriental Series:—*

Three hundred and forty coins, recently acquired, have been registered and incorporated.

The series of the Sassanian kings of Persia has been expanded. The coinages of the Indo-Greek and Kushan rulers of India have been carefully studied and classified. A general examination of the Oriental series has been made with a view to making notes of coins at present unpublished. The arrangement of the coins of the Mediæval Mohammedan States and of the Moghul Empire has been rectified, and new heading cards inserted. The series of coins of the Shahs of Persia, the Buwayhids, Ayyubids, Timurids and Shaybanids have been re-arranged under mints and new and additional heading cards written.

New heading cards have been inserted in the Gupta series.

Collections and Sale Catalogues have been examined and selections made for acquisition by purchase and donation.

An exhibition was arranged of coins illustrating the history of Persia on the occasion of the visit of the Persia Society to the British Museum.

6. *General Arrangement:*—

Selections of coins have been made for future exhibition in electrotype, and for casting for educational purposes.

II.—*Catalogues.*

1. Catalogues of Greek Coins.

Coins of Palestine (Galilee, Samaritis and Judæa), by G. F. Hill.

The text from sheet Mm onwards and the whole of the introduction and indexes have been passed for press, and the volume published.

Coins of Cyrenaica, by E. S. G. Robinson.

The early coinage of Cyrenaica has been studied and bibliographical, metrological, and historical notes have been made; a connected account of the first three periods of this coinage has been prepared; the coinage of Syrtica and Byzacene has been examined and re-arranged. The verification of the coins of the Cyrenaica series with the registration books is completed. 402 coins have been weighed and 217 described.

Coins of Arabia, &c., by G. F. Hill.

One hundred and sixty-one coins have been weighed and 295 arranged and catalogued. Casts of coins of this series not in the British Museum have been incorporated with the collection of coins for purposes of study. The coinages of Nabatæa, the cities of Arabia, and the Himyarite rulers of South Arabia have been arranged and described, and the historical introduction to these portions written; facsimile drawings have been made of the inscriptions on coins of Nabatæa, and of the inscriptions and monograms on coins of the Himyarite rulers of South Arabia.

2. Catalogue of Roman Coins.

Coins of the Early Roman Empire, by H. Mattingly.

Two hundred and sixty-three coins have been weighed and described. The coins down to the accession of Vespasian have been verified with the registration books. A special study has been made of the period A.D. 68–70 and the gold and silver coins of Vespasian and his sons have been re-arranged. Literary sources have been studied and progress has been made with assigning dates and places of minting to various issues; the issues of silver in the provinces under the empire have been carefully examined in the light of historical authorities. The section of the Introduction dealing with the general principles of arrangement has been written. The descriptions of coins from Augustus to Claudius have been revised and amplified.

3. Catalogue of English Coins.

Coins of the Norman Kings, by G. C. Brooke.

The sixty-two plates have been passed for press and worked off, and references to the plates have been inserted in the text of the catalogue. Drawings for founts and devices and for the epigraphical tables have been sent to press, the founts and devices have been made and the epigraphical table printed. The manuscript of the catalogue has been revised and the numbers of coins inserted and the bibliographical notes completed; the text to the end of the reign of Henry I. has been sent to the printers. Signatures A to M (pages 1–176) have been passed for press and N for revise. A special study has been made of the baronial and irregular issues of the reign of Stephen. The manuscript of the greater part of the Introduction has been written and revised.

4. Catalogues of Indian Coins.

Coins of the Gupta Dynasties, by J. Allan.

The indexes have been prepared, signatures U–Aa have been printed. The introduction has been completed and printed (signatures *a–s*), and the whole work published.

Ancient Hindu Coins, by J. Allan.

The series and its bibliography have been studied and the descriptions of 89 coins have been written.

5. Medals.

Select Italian Medals, by G. F. Hill.

The 50 plates have been mounted and sent to the printers, and 31 have been sent for revise.

III.—*Acquisitions.*

The total number of coins and medals added to the Department during the year 1914 was 3,090, of which 61 were of gold, 2,170 of silver, 701 of bronze, and 158 of other metals.

The following table shows the numbers of the new acquisitions, classified according to the several series to which they belong:—

Class.	Gold.	Silver.	Bronze.	Other Metals.	Total.
Greek	21	193	464	49	727
Roman	4	34	64	3	105
British and Colonial	10	745	129	92	976
Mediæval and Modern	6	1,175	42	10	1,233
Oriental	20	22	1	4	47
Chinese	—	1	1	—	2
Total	61	2,170	701	158	3,090

Of the above, 1,914 have been presented, viz., 6 of gold, 1,295 of silver, 527 of bronze, and 86 of other metals.

The following is a list of benefactors to the Department of Coins and Medals during the past year :—

His Grace the Duke of Portland ; H.M. First Commissioner of Works ; the Deputy Master of the Mint ; the Director of Agriculture for the Central Provinces of India ; the Government of Madras ; the National Art Collections Fund ; the Egypt Exploration Fund ; the Directors of the Bank of British West Africa ; the Bombay Branch of the Royal Asiatic Society ; the American Numismatic Society ; E. D. Adams, Esq. ; James Anderson, Esq. ; Miss Agnes Baldwin ; V. C. Bentinck, Esq. ; E. M. Beloe, Esq. ; Henry Van den Bergh, Esq. ; J. Berry, Esq., F.R.C.S. ; Dr. John Brighouse (Executors of the late) ; W. H. Buckler, Esq. ; R. O. Burnett, Esq. ; Prof. V. Casagrandi ; W. Charlton, Esq., J.P. ; Lieut.-Colonel G. B. Croft-Lyons, F.S.A. ; H. D. Curtis, Esq. ; Richard Dalton, Esq. ; Prof. Hermann Dessau (Komitee zur Feier von Otto Hirschfelds 70. Geburtstage) ; Count Miklós Dessewffy ; Messrs. O. M. and R. Y. Eidlitz ; Miss A. M. Elverson ; Miss Helen Farquhar ; A. Felsenthal, Esq. ; K. u. K. Regierungsrat Eduard Fiala ; Andrew Forgan, Esq. ; Dom D. T. Fournier ; A. G. L. Gamlen, Esq. ; R. L. Gamlen, Esq. ; T. Whitcombe Greene, Esq., F.S.A. ; Julius Hannes, Esq. ; F. W. Hasluck, Esq. ; Edward Hawkins, Esq. ; G. F. Hill, Esq. ; Madame H. Hymans ; H. Davis Ives, Esq. ; P. W. Jarvis, Esq. ; Signor Stefano Johnson ; Homer Lane, Esq. ; L. A. Lawrence, Esq., F.S.A. ; Prof. Dr. J. Leite de Vasconcellos ; H. Lowerison, Esq. ; Dr. R. Main ; Alexander Mann, Esq. ; S. F. May, Esq. ; Alfred Meigh, Esq. ; Direktor Dr. Julius Menadier ; J. Grafton Milne, Esq. ; W. Minet, Esq., F.S.A. ; J. Pierpont Morgan, Esq. ; M. A. Muchmoff ; Dr. R. Münsterberg ; Paul Neff Verlag ; R. Newstead, Esq. ; Edward T. Newell, Esq. ; M. Alexis V. Oreshnikov ; M. S. Prichard, Esq. ; Rev. F. D. Ringrose (Executors of the late) ; Maurice Rosenheim, Esq., F.S.A. ; Horace Sandars, Esq., F.S.A. ; E. J. Seltman, Esq. ; C. Davies Sherborn, Esq. ; E. B. Smith, Esq. ; Messrs. Spink & Son ; Henry Symonds, Esq., F.S.A. ; J. R. Taylor, Esq., M.A., F.R.G.S. ; C. Thackray, Esq., M.D. ; Charles Tite, Esq. ; W. H. Valentine, Esq. ; Percy H. Webb, Esq. ; F. Parkes Weber, Esq., M.D. ; R. B. Whitehead, Esq., I.C.S. ; R. J. Whittall, Esq.

IV.—*Remarkable Coins and Medals.*

1. *Greek Series :—*

(a) *Europe :—*

Italy.—Etruria.—Populonia.—Silver didrachm (20 units), of the 4th–3rd cent. B.C. *Obv.* Gorgoneion and mark of value. *Rev.* "Pupluna" in Etruscan characters around star. (Sambon, 59.)

Etruria, Uncertain mint.—Bronze coin of the third cent. B.C. *Obv.* Female head and remains of inscription. *Rev.* Plain.

Campania.—Capua.—Bronze uncia of the third cent. B.C. *Obv.* Head of Heracles. *Rev.* Cerberus.

Lucania.—Metapontum.—Fine silver didrachm of the fourth cent. B.C. *Obv.* Head of Persephone. *Rev.* Ear of corn; symbol, bucranium.

Bruttium. – Croton.—Silver didrachm of the fifth cent. B.C. *Obv.* Tripod. *Rev.* Tripod, and monogram of **NA**.

Sicily.—Gela.—Bronze trias of the fourth cent. B.C. *Obv.* Bull and mark of value. *Rev.* Wheel with corn-grains between the spokes.

Messana.—Silver tetradrachm of the fifth cent. B.C. *Obv.* Mule car. *Rev.* Hare, with sequence-letter **D**.

Presented by G. R. Taylor, Esq.

Syracuse.—Silver tetradrachm of the archaic period of the usual types, but the nymph Arethusa's hair is confined by a broad fillet.

Thrace.—Two very barbarous imitations of the late silver tetradrachms of Thasos.

Macedon.—Uncertain Mints.—Silver Euboic tetrobol of the sixth cent. B.C. *Obv.* Rosette of flowers. *Rev.* Incuse square.

A silver didrachm of about 500 B.C. *Obv.* Floral design with forepart of a boar. *Rev.* Incuse square.

Æneia.—Silver tetrobol of the fifth century B.C. *Obv.* Head of Athena. *Rev.* Bull.

Macedon.—King Demetrius Poliorcetes (306–283 B.C.).—An exceptionally fine silver tetradrachm. *Obv.* Portrait of the king. *Rev.* Poseidon seated.

Another fine silver tetradrachm. *Obv.* Portrait of the king. *Rev.* Poseidon standing, holding trident.

King Philip V. (220-179 B.C.).—Silver tetradrachm. *Obv.* Head of Prince Perseus as hero Perseus on a shield. *Rev.* Club in oak-wreath.

Bœotia.—Tanagra.—Lead trial proof of a stater of the early fourth century B.C. *Obv.* Bœotian shield. *Rev.* Forepart of springing horse.

Attica.—Athens.— Thirty-three bronze *kollyboi* (minute coins) of the late 5th cent. B.C.

Presented by James Anderson, Esq.

Ægina.—Silver stater of the seventh cent. B.C. of unusual workmanship. *Obv.* Tortoise, showing plates on carapace. *Rev.* Square incuse.

Celtic.—Ten gold coins (Wt. 37·9—35·6 grs.) of the "rainbow cup" type (second cent. B.C.?), from a find at Vetulonia.

Spain.—Hispano-Carthaginian (Barcide Period).—Three silver coins: (*α*) *Obv.* Beardless male head; *Rev.* Horse and palm-tree, 104·8 grs. (*β*) Similar head; *Rev.* Horse, 56·6 grs. (*γ*) Similar head, with club at shoulder; *Rev.* Elephant, 28·1 grs. From a find in Spain.

Two hundred and thirty-one silver and bronze coins of various mints of the pre-Roman and Early Imperial periods.

Presented by W. H. Buckler, Esq.

(b.) *Asia and Africa*:—

Paphlagonia.—A silver drachm of King Attalos Epiphanes. *Obv.* King's head diademed; *Rev.* Eagle; inscr. **ΒΑΣΙΛΕΩΣ ΑΤΤΑΛΟΥ ΕΠΙΦΑΝΟΥΣ**.

No coinage of this king has been known hitherto; nor is it certain whether he is the Attalos who was named "dynast" of Paphlagonia in 64 B.C. by Pompeius, or an earlier ruler of the same name.

Mysia.—Cyzicus.—Electrum stater of the period 550–475 B.C. *Obv.* Dog standing on tunny-fish. *Rev.* Incuse square.

Lampsacus.—Bronze coin of the fourth cent. B.C. *Obv.* Female head laureate, with small horn on forehead. *Rev.* Forepart of Pegasus.

Æolis.—Temnus.—Nine bronze coins of the 2nd—1st cent. B.C. from a recent find.

Presented by J. G. Milne, Esq.

Ionia.—Smyrna.—Fifty-five bronze coins of various periods.

Presented by W. H. Buckler, Esq.

Caria.—Cnidus.—Seven small silver coins of the 3rd cent. B.C. from recent find.

Presented by J. G. Milne, Esq.

Neapolis and *Harpasa* in alliance. Bronze coin of Trebonianus Gallus. *Rev.* Artemis and Athena.

Rhodes.—Silver tetradrachm of the fourth cent. B.C. *Obv.* Head of Helios three-quarter face. *Rev.* Rose; symbol, club.

Lydia.—Sardes.—Twelve bronze coins, late autonomous and Imperial.

Presented by W. H. Buckler, Esq.

Phrygia.—Nacoleia.—Bronze coin of Trajan. *Rev.* Cybele seated, holding patera.

Cilicia.—Forty-eight silver coins, mostly of the first half of the fourth century B.C., from a find probably made in Cilicia. The coinages represented are those of Athens, Byzantium, Sinope, Miletus, Aspendus, Soli, Aradus, and Persia.

Presented by E. T. Newell, Esq.

Tarsus.—Silver stater of the fifth century B.C. *Obv.* King on horseback. *Rev.* Nude warrior kneeling, with spear and shield; symbol, scorpion.

Bronze coin of Macrinus. *Rev.* The god Sandan on a horned lion.

Uncertain Cilician (?) *Mints.*—Seven small silver coins of the fourth cent. B.C., weighing from 14·3 to 4·5 grs. (*α*) *Obv.* Lion's head; *Rev.* Head of the god Bes. (*β*) *Obv.* Female head, copied from Kimon's Arethusa. *Rev.* Two nude men wrestling. (*γ*) *Obv.* Similar to preceding. *Rev.* Head of Ares. (*δ*) *Obv.* Head of Athena. *Rev.* Zeus seated. (*ε*) *Obv.* Head of Kronos (?)

as on coins of Mallus. *Rev.* Head of young Heracles in lion-skin. (ζ) *Obv.* Head of Satrap. *Rev.* Forepart of horned Pegasos. (η) *Obv.* Beardless male head. *Rev.* Head of Ares, with name of Mazaeus in Aramaic.

Elæussa-Sebaste.—Silver tetradrachm of the first cent. B.C. *Obv.* Bust of City Goddess. *Rev.* Goddess standing, her hand on tiller. The only other known specimen of this coin is in the Paris Cabinet.

Cappadocia. — Cæsarea. — Bronze coin of Julia Domna. *Rev.* Mount Argæus between two prize crowns, with agonistic inscription.

Kings of Syria.—Antiochus I.—(280–261 B.C.) A silver tetradrachm. *Obv.* King's head. *Rev.* Apollo seated on omphalos.

Demetrius I.—(162-150 B.C.) Bronze coin; *Obv.* Head of mastiff; *Rev.* head of *caracal* (?).

Presented by R. J. Whittall, Esq.

Demetrius III.—(95–88 B.C.) Bronze coin; *Obv.* King's bust radiate; *Rev.* Victory.

Presented by Miss Agnes M. Elverson.

Babylon.—Successors of Alexander the Great. Four silver staters: *Obv.* Zeus seated, holding sceptre; *Rev.* Lion walking. various letters or symbols in the field.

Parthia.—King Orodes II. (A.D. 4–6). Silver tetradrachm. *Obv.* Bust of king. *Rev.* King seated, holding bow and sceptre; around, his titles, the date 317 = 5-6 A.D., and the month name *Dystros.* The only other known tetradrachm of this king is in the Berlin Cabinet.

Cyrene.—Three gold staters of the fourth century B.C.: *Obv.* Nike in four-horse chariot; *Rev.* Zeus sacrificing. All with name of *Poliantheus*, but from different dies.

Gold stater of the fourth cent. B.C. *Obv.* The nymph Cyrene driving a chariot. *Rev.* Zeus seated; in the field an eagle carrying a serpent; magistrate's name *Iasonos.*

Gold drachm of the same period *Obv.* Horseman. *Rev.* Silphium plant; magistrate's name *Iasono* (apparently altered from *Kudios*).

Gold quarter-stater of the same period. *Obv.* Triple silphium. *Rev.* Head of Athena; magistrate's name *Ias.*

Axum (Æthiopia). A rare bronze coin of King Ezanas. *Obv.* King's bust; *Rev.* Ear of corn.

Presented by James Anderson, Esq.

2. *Roman Series:*—

Two pieces of Italian "Aes Rude" from an Etruscan necropolis at Orvieto.

Presented by James Berry, Esq., F.R.C.S.

Augustus. — An unpublished denarius; *obv.* head of Augustus laureate; *rev.* votive shield, CAESAR AVGVSTVS.

A rare variety of the *as* of the moneyer C. Asinius Gallus.

Claudius. — A double denarius with *rev.* **OB CIVES SERVATOS** in wreath and another with portraits of Claudius and Agrippina; both of some non-Roman mint, probably Cæsarea in Cappadocia.

A denarius with *rev.* Triumphal Arch with inscription **DE BRITANN**(is).

Nero.—A fine specimen of the sestertius with *rev.* Port of Ostia and an aureus with *rev.* **IVPPITER LIBERATOR,** Jupiter seated l.

Galba.—Five sesterces with *rev.* **LIBERTAS PVBLICA, PAX AVGVST.** (two varieties), Eagle between two standards, and Roma seated.

Vespasian.—An unpublished variety of the sestertius with *rev.* **PAX AVGVSTI** and a "restoration" of a dupondius of Claudius.

Carausius.—A unique bronze coin with *rev.* **PAX AVG,** a native soldier with spear and buckler, and two others with *rev.* **PAX AVG.,** Pax facing, and **VIRTVS AVGGG.,** all of the London mint.

Allectus.—Three varieties of bronze coins, all of London mint.

Constantius II. — A solidus with *rev.* **VICTORIA CONSTANTI AVG.**

A series of denarii of the Emperors Geta, Postumus, Gratian, Theodosius and Magnus Maximus.

Presented by the Executors of the late Rev. F. D. Ringrose.

A series of bronze coins of Constantine I., Constantine II., Crispus, Helena, Fausta and Honorius, found at Antinoe.

Presented by the Egypt Exploration Fund.

Byzantine.—A series of Byzantine coins, including solidi of Zeno and Alexius I., siliquæ of Constans II., Leo IV., Nicephorus II., Basil II, &c., bronze coins of Anastasius, Justinian I., Tiberius II., Phocas, Constantine IV., Theophilus, &c., and two silver coins of Manuel I. of Trebizond.

Presented by M. S. Prichard, Esq.

3. *British and Colonial Series* :—

(*a*) Coins and Tokens :—

An ancient British gold coin with plain obverse and a horse to the right on the reverse.

Eighty-six Anglo-Saxon pennies (Æthelred II. to Edward Confessor) from a sale at Stockholm.

A selection of early English coins, formerly in the P.W.P. Carlyon-Britton Collection, including three silver sceattas with Runic inscriptions which may perhaps be attributed to Wihtred, king of Kent (A.D. 690–725), fourteen pennies of William I. of various mints, including Bedwin (Hampshire)

and Malmesbury, and eight pennies of William II., which include rare issues of Guildford, Hythe and Worcester.

A rare penny of Henry I. of the Hastings mint and three pennies of William I., formerly in the J. Dudman Collection.

A penny of Stephen from the G. J. Bascom Collection struck at the mint of Pembroke, which was previously only known to have operated in the reign of Henry I.

A large selection of long-cross pennies of Henry III., with some Scottish and Irish pennies of the same period, from a find made at Slype in Belgium.

A large number of English, Scottish, Irish and Continental pennies (period, *circa* 1280–1330) selected from a find made at Carsphairn in Galloway.

A selection of English coins from the F. A. Walters Collection, mostly of the fourteenth and fifteenth centuries, including a rare half-groat of the last issue (DI.GRA in title) of Edward III., a rare groat of Richard II. showing transition of style to the coinage of Henry IV., a groat of Henry IV. struck early in the period 1411–3, and a half-groat of the same reign showing a genuine attempt at portraiture similar to the well-known groat of the same issue, a penny of Henry VI. of the restoration period (1470–1) and a York halfpenny of Henry VIII. bearing the initials of Thomas Wolsey.

An unpublished variety of the London half-groat of the light coinage of Henry IV.

A farthing of the light coinage of Henry IV., supposed to be unique, from the Bascom, Webb and Montagu collections.

A Tower half-crown of Charles I. with mint-mark Triangle superimposed on Anchor, and a rare variety of the sixpence of 1699. *Presented by Miss Helen Farquhar.*

A selection of Scottish coins, mostly placks and bawbees, of the late sixteenth century, including a two-thirds of a ryal of Mary, from a find made at Ayr.

A silver six-bit piece of Dominica.
Presented by P. W. Jarvis, Esq.

Seventy-four hop growers' tokens in use in Kent and Sussex. *Presented by E. B. Smith, Esq.*

A series of eighty tradesmen's tickets of Somerset.
Presented by Charles Tite, Esq.

Two copper and four white-metal tokens of "The Little Commonwealth," Batcombe, Dorset.
Presented by Homer Lane, Esq.

(*b*) Medals:—

A unique medal by Simon Passe representing the portrait and coat-of arms of an unknown person, a very fine example of Passe's work.

Lead-gilt trial castings of the two sides of a large medal commemorating the Union of England and Scotland in 1707.
Presented by the National Art Collections Fund.

A silver medal commemorating the visit of George III. to St. Paul's on April 23rd, 1789. *Presented by Dr. R. Main.*

A bronze-gilt cliché of the obverse of a medal of George III.
Presented by Miss Helen Farquhar.

A bronze medal commemorating the coming of age of the Marquess of Titchfield.
Presented by His Grace the Duke of Portland.

(*c*) Miscellaneous:—

One hundred and eighty-eight dies of English coins of the 14th century, from the Chapel of the Pyx.
Presented by H.M. First Commissioner of Works.

An interesting selection of primitive native currency in use in British West Africa and on the French Ivory Coast, comprising brass rods, copper wires, "manilas" or bracelets, iron hoe-money and arrow-heads.
Presented by the Bank of British West Africa.

4. *Mediæval and Modern Series:—*

(*a*) Coins:—

A very fine collection of 1,051 silver deniers and four bronze coins of the Frankish rulers of Athens and Achaia, and other coins of the XIth–XIIth centuries, notably semi-bracteate coins of Switzerland. The museum had previously only a small series of the Frankish coins and none of the Swiss bracteates of the "Steckborn" type; now the collection of coins of the Princes of Achaia and Dukes of Athens is probably the largest outside the Athens Museum. The details of the acquisition are: 402 silver coins of the Princes of Achaia, 367 silver coins of the Dukes of Athens, 133 silver Swiss coins of the Steckborn type, 89 silver and 4 bronze other Mediæval and Renaissance coins. These coins were formerly in the collection of Lord Grantley, who had devoted particular attention to the study of these series. *Presented by Maurice Rosenheim, Esq., F.S.A.*

Fifty-six silver denarii of the Margraves of Brandenburg of the XIIIth century from a find at Zerbst, and a bracteate of Otto II. of Brandenburg.
Presented by Direktor Dr. Julius Menadier.

Four gold tari of William II. and Henry VI., Norman Kings of Sicily.

A gold ducat of Pope Clement VII. (1523–1534) struck at Modena: *Obv.* Portrait bust of the Pope. *Rev.* S. Gemignano seated to front S. GEM. MVTINEN. EPS. Wt., 53·4 grains (cf. Serafini, *Monete Pontificie*, I., p. 219, No. 193). From the Martinori Collection (lot 2080).

Two gold Levantine imitations of Venetian sequins.

Five bronze Greek Church tokens and three modern Greek nickel coins. *Presented by F. W. Hasluck, Esq.*

Two Mexican dollars of Charles III. of Spain.
Presented by L. A. Lawrence, Esq., F.S.A.

A Spanish dollar from the treasure recovered in 1687 by the Duke of Albemarle's expedition from a Spanish ship wrecked off Hispaniola. *Presented by W. Minet, Esq., F.S.A.*

Nine gold coins of Charles III. and IV. of Spain, Maria I. and Peter III. of Portugal, and Peter III. of Brazil.
Presented by Stanley F. May, Esq.

(*b*) Medals :—

A bronze medal of the fifteenth century representing Constantine the Great on horseback, being a Flemish or Northern French reproduction of the medal of Constantine mentioned in the Inventories of the Collections of the Duc de Berry. *Presented by T. Whitcombe Greene, Esq., F.S.A.*

A rare silver Dutch medal of 1700, relating to the state of Europe and the Papal Jubilee.

A bronze medal by Devreese of M. Henri Hymans (1836–1912), Conservateur en chef of the Royal Library, Brussels.
Presented by Madame Henri Hymans.

A bronze medal of Napoleon I. (*Dernière Pensée*, 1821).

A gold medal of Maria I. and Peter III. of Portugal, commemorating the foundation of the convent of Estrella.
Presented by Stanley F. May, Esq.

A bronze medal of Prof. Otto Hirschfeld.
Presented by Prof. H. Dessau, on behalf of the Komitee zur Feier von Otto Hirschfelds 70. Geburtstage.

A bronze memorial medal of the late J. Pierpont Morgan.
Presented by Edward D. Adams, Esq.

A silver medal of Marc Eidlitz (1826–1892).
Presented by Messrs. Otto M. and Robert Y. Eidlitz.

5. *Oriental Series* :—

A dinar of the Samanid Sultan Nasr II. struck at Nishapur, 324 A.H.

A dinar of the Buyid Sultans Imad al-Daula and Rukn al-Daula, struck at al-Muhammadiya, 738 A.H.

A gold tuman of Husain Shah of Persia, struck at Meshhed 1134 A.H., and another of Fath 'Ali Shah, Yazd, 1235 A.H.

Four lead coins of the Andhras (cf. B.M.C., No. 105 ff), from a find made in the Anantapur district.
Presented by the Madras Government.

A gold suvarna of Kumaragupta I. of the Peacock type.

A gold tanka of Tughlak Shah of Delhi, A.H. 723.

Six rupees of Akbar, of Ahmadabad (994 A.H.), Fathpur (286 A.H.), Lahore (986 A.H.), Tatta (Ilahi 41, Di), Urdu Zafar Karin (1000 A.H.) and without mint (Ilahi 34).
Presented by the Bombay Branch of the Royal Asiatic Society.

A muhur of Jahangir of Agra, 1022 : 13, Shahrewar.
Three muhurs of Aurangzib of Allahabad, 1118 : 51 ; Lahore, 1105 : 38 ; Nasratabad, 1114 : 46.

A muhur of Jahandar of Burhanpur, 1124 : 1.

Three muhurs of Muhammad Shah of Burhanpur, 1148 : 10 ; Katak, 1137 : 6 ; Multan, 1151 : 24.

A gold fanam of Ahmad Shah of Kharpa mint.
Presented by the Madras Government

Two gold muhurs of Ghazi al-Din (1135 : 1) and Nasir al-Din (1246 : 4), kings of Oudh.
One gold nisar piece of Hyderabad (1229 A.H.).
Presented by R. L. Gamlen, Esq.

Four rupees of Hyderabad State.
Presented by A. G. L. Gamlen, Esq.

Three silver coins of the Emperor George V. and the Maharaja Sumer Singh of Jodhpur.
Presented by Alfred Meigh, Esq.

V.—*Books, &c. presented to the Departmental Library.*

The following, among other books, have been received as donations to the Departmental Library.

Aspects of Death in Art and Epigram.
From the Author, F. Parkes Weber, Esq., M.D., F.S A.

Beschreibung Böhmischer Münzen und Medaillen.
From the Author, K. u. K. Regierungsrat Eduard Fiala.

Ancient Numismatics of the Black Sea Region, and other Pamphlets. *From the Author, M. Alexis Oreshnikov.*

Catalogue of Coins in the Panjab Museum, Lahore, 2 vols.
From the Author, R. B. Whitehead, Esq., I.C.S.

Catalogue of the Exhibition of U.S. and Colonial Coins and the American Numismatic Journal, Vol. XLVII.
From the American Numismatic Society.

Provincial Token Coinage of the Eighteenth Century, Parts VII. and VIII.
From the Authors, Messrs. R. Dalton and S. H. Hamer.

Mitteilungen der Bayerischen Numismatischen Gesellschaft, Vols. I–XVIII.
Presented by Maurice Rosenheim, Esq., F.S.A.

Adolfo Herrero ; El Duro, 2 vols.
From Horace Sandars, Esq., F.S.A.

Barbár Pénzei.
From the Author, Count Miklós Dessewffy.

Ten cases of manuscript collections by Edward Hawkins relating to English medals. *From Edward Hawkins, Esq.*

A volume of drawings by the English numismatist J. Y. Akerman and his annotated copy of the third volume of Ruding's *Annals*. *From Alexander Mann, Esq.*

Forty-fourth Report of the Deputy Master of the Mint. *From the Deputy Master of the Mint.*

VI.—*Students and Visitors.*

The number of visits made to the Department of Coins and Medals by students and others during the year 1914 was 3,321, the average for the preceding ten years being 4,171.

The Exhibition Corridor was closed to the public from the 15th to the 20th of July for repainting.

G. F. Hill.

British Museum (Natural History).

STATEMENT of Progress made in the Arrangement and Description of the Collections, and Account of Objects added to them, in the Year 1914.

General Progress.

Visitors.

The total number of visits made by the public to the Natural History Museum during 1914 was 420,914, as compared with 486,320 in 1913.

The attendance on Sunday afternoons was 46,960, as against 53,301 in the previous year.

The average daily attendance for all open days was 1,159; for week days, 1,195; and for Sunday afternoons, 903.

There was a large falling off in the number of visitors from the date of the outbreak of the war, and the total decrease may be attributed to that cause.

Official Guide.

The services of the Official Guide (Mr. J. H. Leonard) continue to be much in request. During 1914 over 14,000 persons attended his demonstrations, and since his first appointment on May 20, 1912, 38,423 persons had been conducted by him through the galleries up to the end of last year.

Arrangements were made with the London County Council for Mr. Leonard to conduct parties of L.C.C. School Teachers over the Museum on Saturday mornings, these visits extending over a period of about 18 weeks.

Swiney Lectures.

Dr. J. D. Falconer gave his first course of Swiney Lectures on Geology during November and December, the subject being "Land Forms and Landscapes: their origin and classification."

The lectures, twelve in number, were delivered in the theatre in theVictoria and Albert Museum, with the permission of the Board of Education, and were attended by an average of 122 persons per lecture, as compared with 98 in the previous year.

Dr. Falconer's next course of lectures on this foundation will be given in November and December next, the subject selected being "Ice and the Ice Age."

Electric Lighting.

The electric lighting of the galleries on the first floor, namely, the Mineral and Lower Mammal Galleries, has been completed, and a commencement has been made in the Upper Mammal Gallery.

As a precautionary measure, an independent system of "Pilot" lighting throughout the building has been installed.

Extension of the Natural History Museum.

The Trustees have submitted to the Government a full statement of their views as regards the future extension of the Natural History Museum. While they have shown and emphasized the need of providing more accommodation for the immediate requirements and future growth of the Museum, they have deemed it right in the existing national emergency not to press for funds for this work. They have, however, intimated that should His Majesty's Government at some later date wish to find employment for labour, they hoped that the extension of the Natural History Museum would be borne in mind.

The War.

Certain precautions against possible attack by hostile aircraft have been taken, and some of the unique and more valuable specimens have been removed from the exhibition galleries to a place of greater safety.

The staff of the Museum has been depleted through a number of its members having joined the Naval or Military forces with the permission of the Trustees. Up to the end of December 37 of the staff were so serving.

The Museum has also raised an efficient Red Cross Section for service in Kensington, and has organised a platoon of the Volunteer Training Corps for home defence.

Classes from the Royal Army Veterinary Corps and Royal Field Artillery (Territorial Forces) have received instruction in the Museum on the anatomy of the Horse, Museum specimens being used for demonstration.

The Admiralty.

Assistance was rendered to the Admiralty in connection with certain damage caused by insects to the envelope of an airship and a balloon.

Museums Association.

Dr. F. A. Bather, F.R.S., Assistant Keeper of the Department of Geology, again attended, as delegate of the Natural History Museum, the Annual Conference of the Museums Association held at Swansea in July.

Animal Protection.

The Government Bill prohibiting the importation of bird plumes received the hearty support of the Trustees. It is to

be regretted that circumstances prevented this most useful measure from becoming law.

In this connection the Trustees would desire to place on record their appreciation of the valuable work that is being done by the Colonial Office, in conjunction with the Governors and other officials of the Crown Colonies and Protectorates, in devising measures (Acts, Ordinances, &c.) for the protection of birds and other animals in these parts of the Empire, with a view to safeguarding them from the danger of extinction. The assistance of the experts of the Natural History Museum has been freely placed at the disposal of the Colonial Office in furtherance of the end in view.

Anglo-Swedish Antarctic Scientific Station.

Owing to the war, the scheme for the projected establishment of an Anglo-Swedish Antarctic Scientific Station has had to be suspended. The Swedish Committee have been informed that there is no probability of the preparations in this country for carrying out the project being resumed during the war.

Arrangements have, however, been made with Dr. Johan Hjort, Principal Fishery Officer of the Norwegian Government, in the hope that through him as intermediary information may be obtained from the Norwegian Whaling Companies operating in the far South, with a view to instituting investigations based on the material so gathered.

Investigation of Antarctic Whales.

The whaling notes made by the late Major G. E. H. Barrett-Hamilton, to whose mission for the study of whales in the Antarctic, and to whose untimely death in South Georgia, a reference was made in last year's report, have been received, and they are being examined by Mr. M. A. C. Hinton, with a view to furnishing a report to the Colonial Office.

As one result of Major Barrett-Hamilton's mission, the Museum has received a large and valuable consignment of whale material, consisting of complete sets of baleen of Humpback Whale, Blue Whale, and Common Rorqual, a pair of flippers of each of these three species, a scapula and a vertebra of a Blue Whale, and several fœtal specimens. The whole of these specimens were presented to the Museum by Messrs. Chr. Salvesen & Co., of Leith, who not only rendered Major Barrett-Hamilton great assistance in obtaining them, but also conveyed them free of cost from South Georgia to Rotterdam.

Stranded Whales.

The systematic inquiry into the stranding of Cetacea on the British coasts was continued during 1914. The number of records received up to the end of July amounted to 43. The outbreak of war at the beginning of August, however, gave other occupation to Coastguard officers, and the period from August to the middle of October, which provided far the

largest number of records during 1913, was greatly affected by the abnormal conditions of 1914, and the year closed with a total of 57 as compared with 76 in the previous year.

Although the number reported has shown a falling off, the evidence obtained with regard to the species stranded is much more precise than in the preceding year, due to improved arrangements for obtaining data.

Among the specimens secured for the Museum in this way was the entire skeleton of a Sowerby's Whale, a rare species not previously represented by a skeleton in the collection.

Information having been received in November of the stranding of a large whale at Birchington, Kent, an officer was sent from the Museum to make on the spot investigations which would be useful in reconstructing the large models in the Whale Room. The animal was found to be a Common Rorqual, 61 feet long, which had apparently been killed by collision with a mine. The pelvic bones were secured for the Museum.

The thanks of the Trustees are due to the Coastguard officers and Receivers of Wreck who have given such valuable assistance in this inquiry. A Second Report on the subject is in preparation and will be issued early in 1915.

Indian Mammal Survey.

The Trustees have made a further grant to the Bombay Natural History Society's Fund for the survey of the mammal fauna of India. The Museum has received a large share of the specimens collected during the survey, which is doing so much to advance our knowledge of the mammalian fauna of India (*see* B.M. Return, 1912, p. 104). This important undertaking has, however, unfortunately been interrupted through the war.

Robinson Expedition to Western Sumatra.

The Trustees have contributed towards the expenses of a collecting expedition to Western Sumatra under the leadership of Mr. H. C. Robinson, Director of the Federated Malay States Museum in Kuala Lumpur. The Natural History Museum will receive a share of the collections made in a part of the world hitherto little explored from a zoological point of view.

Wollaston Expedition to New Guinea.

As an instance of the valuable scientific results obtained and of the benefit accruing to the Museum by the despatch of exploring expeditions, it may be mentioned that the collection of plants made by Dr. A. F. R. Wollaston in his expedition to Dutch New Guinea (*see* Return 1914, p. 126) has been found on its being worked out to contain no fewer than 500 species not previously known to science and eight new genera.

An account of the collection, prepared by Mr. H. N. Ridley, with the assistance of members of the Department of Botany, will be published in a Report of the Results of the Expedition.

Expedition to the Sudan.

The Bird Room has been considerably enriched through an expedition to the Sudan and Upper Nile, organised by Mr. Abel Chapman and Capt. Hubert Lynes, R.N. This expedition was undertaken by these two gentlemen principally with the object of obtaining specimens for the Museum, which is indebted to them for the presentation of a valuable collection of birds and a smaller series of mammals.

Bequests.

The late Mr. G. B. Corbin bequeathed to the Museum a specimen of the Needle-tailed Swift (*Chætura caudacuta*), killed at Ringwood, Hants, in July, 1879—a bird of considerable interest and value on account of the extreme rarity of the species in Britain.

Mrs. Lena Ward, under the power contained in the will of her husband, the late James Rowland Ward, has selected the Natural History Museum as one of eight institutions to benefit from the surplus income arising out of the estate. The amount apportioned annually to the Museum from this source will be expended in the purchase of mounted specimens for exhibition.

The specimens received during 1914 from the Rowland Ward Trustees are as follows:—

A magnificent Gorilla, a Malay Elephant (young), a Clouded Leopard, a head of Grévy's Zebra, a Cameroon Forest-hog, a White Fox, a Canadian Ruffed Grouse, and 64 mounted birds.

Presents.

The total number of gifts received during the year by the several Departments was 2,336, as compared with 2,546 in the preceding year. Many of these comprised large numbers of individual specimens. The details of the more important of them will be found in the reports of the Keepers of the Departments, but the following are mentioned here also, as being of special interest or value:—

From the Duke of Portland.—The skeleton of his famous thoroughbred horse "St. Simon," together with the case in which it was kept.

From the Hon. Leopold de Rothschild.—The skeleton of the celebrated thoroughbred racehorse "St. Frusquin."

From Mrs. Longstaff.—A valuable collection of shells of Land and Freshwater Mollusca, consisting of about 1,344 specimens from the Upper Nile, and including types of new species and figured specimens.

From Mr. F. D. Godman.—8,397 specimens of Lepidoptera Rhopalocera from various localities, including 362 types, all fully prepared and labelled.

From an anonymous donor (through Mr. Guy Marshall).—A valuable collection of about 10,000 specimens of Siphonaptera (or Fleas) formed by the Rev. James Waterston.

From the Lords of the Admiralty.—The rock-specimens and fossils collected by Sir John Richardson on Sir John Franklin's Arctic Expedition (1819–27)—transferred from the Royal Naval Hospital, Haslar.

From Mr. F. N. A. Fleischmann (now Ashcroft).—A superb collection of upwards of 1,000 choice specimens of minerals belonging to the Zeolite group, from various localities in Europe and the United States of America.

From Mr. C. Arthur Pearson.—A very fine polished section of a silicified tree-trunk, from the "petrified forest" of Arizona, U.S.A.

From Mr. and Mrs. P. Amaury Talbot.—A collection of flowering plants from the Eket district of S. Nigeria.

Purchases.

Among the more important purchases made during the year, special attention may be drawn to the following:—

A fine series of birds from Yemen, S. Arabia, collected by Mr. G. W. Bury; fishes and reptiles from Tropical West Africa, collected by Mr. G. L. Bates; the skin and skeleton of a pygmy Hippopotamus from Sierra Leone; a collection made by Mr. C. H. B. Grant of 1,754 British birds, including series collected in all months of the year, and 22 clutches of eggs; a collection of bird-skins from the West Indies and other localities, made by Dr. Percy R. Lowe; the second half of the Koch collection of Arachnida, &c., consisting of 1,246 named species of spiders and 974 tubes of unnamed spiders; 52 bottles and tubes containing specimens of Prototracheata (Peripatus, &c.) from the collection of the late Prof. Adam Sedgwick, F.R.S.; a collection of about 10,000 specimens of Hymenoptera formed by the late Mr. Peter Cameron, and including 1,500 types of species described by him; a large collection of moths, beetles, &c., from Tropical America and other localities; the second and final portion of the late Canon Blackburn's collection of types of Australian Coleoptera, comprising 990 specimens (961 types and 29 co-types); the fourth instalment of the Distant collection of insects, consisting of 3,000 specimens of Rhynchota and 2,000 of Coleoptera (including 250 types); fossil reptiles from the Oxford Clay of Peterborough; an important series of reptilian remains from the Chalk of Kansas; three fossil reptiles from South Africa (Pariasaurus and two new species); a collection of Echinoids from the Inferior Oolite of the West of England; a series of 650 Devonian fossil Invertebrata from the Eifel, Germany; a fine specimen of an Ichthyosaurus, from the Upper Lias of Holzmaden, Würtemberg; a fine example of Kunzite, the rare lilac-coloured variety of Spodumene, and a specimen showing crystals in the matrix, from the Pala Chief Mine, California; a remarkable specimen showing crystallized gold on quartz, from California; an Apatite, a remarkable crystal from Salzburg, Tyrol; two emeralds from Brazil; a slice and a cast of the meteoric iron which was found at Mount Edith, Ashburton, West Australia, on April 20th 1913; a nugget, weighing 54 grams, of the rare mineral Iridosmine, from Tasmania; a large collection of Chinese plants; collections of plants from the South Pacific, Paraguay, Bolivia, Costa Rica Mexico,

South-West Africa, Cameroon, Uganda, the Philippines, &c.; British and foreign Hepaticæ; Bohemian fungi and mosses.

Exchanges and Gifts of Duplicates.

Exchanges of duplicate specimens have been made with various institutions and individuals.

The following Museums have been placed on the list of institutions to receive grants of duplicate specimens:—Public Library and Museum, Colne, Lancashire; Cheltenham College; Tolhouse Museum, Great Yarmouth; Gloucester Museum; Newbury Museum; Port Stanley Museum, Falkland Islands.

Selections of duplicate specimens have been presented as follows:—

Of zoological specimens (other than entomology) — to Leicester Museum and Art Gallery; the Students' Association of North London; H.M.S. "Worcester" (Capt. D. Wilson-Barker); Glasgow University Natural History Department (Prof. J. G. Kerr); Bailey Museum, Mansfield; Zoological Society, London; Exeter Museum; Cheltenham College; Gloucester Museum; Port Stanley Museum, Falkland Islands.

Of entomological specimens — to Dr. F. Maidl (Vienna Museum); Lieut.-Col. F. Winn Sampson; Prof. C. Aurivillius (Stockholm); Dr. M. Cameron; Mr. A. Grouvelle (Paris); Mr. R. Veitch; Mr. R. S. Bagnall; Mr. F. H. Gravely (Calcutta); Señor R. P. Longinos Navás (Saragossa); Dr. Esben Petersen (Denmark); Dr. F. Spaeth (Vienna); Capt. C. Kerremans; Mr. L. Garreta; Prof. F. Netolitzky (Czernowitz); Mr. A. Lea (Adelaide); Prof. T. D. A. Cockerell (Colorado); the Veterinary Institute and School, Melbourne University; and Prof. Maxwell Lefroy.

Of fossils and casts of fossils—to University College, Aberystwyth; Colne Museum; Newbury Museum; the Mineralogical Museum, University of Copenhagen; Prof. H. F. Cleland; Dr. R. Kidston, F.R.S.; Prof. E. Kayser (Marburg); Mr. J. Miquel (France); Dr. G. Ulmer (Hamburg).

Of minerals—to Colne Museum; Dr. L. Péringuey, South African Museum, Cape Town (cast of meteorite); and Mr. C. Maitland.

Of botanical specimens—to the South London Botanical Institute.

(N.B.—All the *individuals* named have presented specimens or otherwise benefited the Museum.)

Publications.

The following works on Natural History have been published uring the year:—

British Antarctic ("Terra Nova") Expedition, 1910. Natural History Report:—

Zoology. Vol. I., No. 1. Fishes. By C. Tate Regan, M.A. Pp. 54: 8 text-figures and 13 plates. 4to. 10*s.* 6*d.*

Zoology. Vol. II., No. 1. List of Collecting Stations. By S. F. Harmer, Sc.D., F.R.S., and D. G. Lillie, M.A. Pp. 12: 4 maps. 4to. 1*s.* 6*d.*

Geology. Vol. I., No. 1. Antarctic Fossil Plants. By A. C. Seward, F.R.S. Pp. 49: 6 text-figures, 8 plates, and 3 maps. 4to. 6*s*.

Report on Cetacea stranded on the British coasts during 1913. By S. F. Harmer, SC.D., F.R.S. Pp. 12: 3 maps and 1 text-figure. 4to. 1*s*. 6*d*.

Catalogue of the Ungulate Mammals. By R. Lyddeker, F.R.S., and Gilbert Blaine :—

Vol. II. Artiodactyla (continued). Pp. xvi, 295: 33 text-figures. 8vo. 7*s*. 6*d*.

Vol. III. Artiodactyla (continued). Pp. xv, 283: 51 text-figures. 8vo. 7*s*. 6*d*.

Revision of the Ichneumonidæ. By Claude Morley. Part III. Tribes Pimplides and Bassides. Pp. ix, 148: 1 coloured plate. 8vo. 5*s*. 6*d*.

Catalogue of Lepidoptera Phalænæ (Moths). By Sir George F. Hampson, Bart. Supplement. Vol. I. Amatidæ and Arctiadæ (Nolinæ and Lithosianæ). Pp. xxviii, 858: 276 text-figures. 8vo. 1*l*. 5*s*.

Flora of Jamaica. By W. Fawcett, B.SC., F.L.S., and A. B. Rendle, D.SC., F.R.S., &c. Vol. III. Dicotyledons. Families Piperaceæ to Connaraceæ. Pp. xxiv, 280: 113 text-figures and 5 plates. 8vo. 15*s*.

Monograph of the Genus Sabicea. By H. F. Wernham, D.Sc. Pp. 82: 12 plates, 2 text-figures, 1 diagram. 8vo. 6*s*.

New editions have been issued of the following guide-books, &c. :—

Guide to the Galleries of Mammals, Ninth Edition. Pp. 123: 65 text-figures, 1 plate, and 3 plans. 8vo. 9*d*.

Guide to the Mineral Gallery. Twelfth Edition. Pp. 32: 1 plan. 8vo. 1*d*.

The Student's Index to the Collection of Minerals. Twenty-fifth Edition. Pp. 35: 1 plan. 8vo. 2*d*.

Introduction to the Study of Minerals, with a Guide to the Mineral Gallery. By L. Fletcher, M.A., LL.D., F.R.S. Fourteenth Edition. Pp. 123: 41 text-figures, 1 plan. 8vo. 6*d*.

Introduction to the Study of Meteorites, with a list of the Meteorites represented in the Collection. By L. Fletcher, M.A., LL.D., F.R.S., &c. Eleventh Edition. Pp. 125: 1 plan. 8vo. 1*s*.

Instructions for Collectors :—

No. 7.—Blood-sucking Flies, Ticks, &c. By E. E. Austen. Fourth Edition. Pp. 24: 23 text-figures. 8vo. 3*d*.

No. 8.—Spiders, Centipedes, Peripatus, &c. Third Edition. Pp. 4: 3 text-figures. 8vo. 3*d*.

Selections of the natural history publications of the Museum have been sent to free libraries and other institutions in Great Britain and Ireland, to colonial, Indian, and foreign museums, libraries, and scientific societies, and to persons who have benefited the Museum by helping in the preparation of the works, or in other ways; and additions have been made to the publications exchange list.

The under-mentioned works are in preparation :—

Library Catalogue, Vol. V.

"Terra Nova" Antarctic Report. Further Sections.

Report on Cetacea stranded on the British coasts during 1914, by Dr. S. F. Harmer, F.R.S.

Catalogue of Bats, Vol. II., by Dr. Knud Andersen.

Catalogue of Ungulate Mammals, Vol IV., by R. Lydekker, F.R.S.

Catalogue of the Freshwater Fishes of Africa, Vol. III., by G. A. Boulenger, F.R.S.

Third Report on Economic Zoology.

Illustrations of British Flies, Second Series.

Illustrations of African Blood-sucking Flies, Vol. II., by E. E. Austen.

Revision of the Ichneumonidæ, Part IV., by C. Morley.

Catalogue of Ethiopian Syrphidæ, by Prof. Mario Bezzi.

Catalogue of Moths, Supplement, Vol. II., by Sir George F. Hampson, Bart.

Flora of Jamaica, Vol. IV., by W. Fawcett and Dr. A. B. Rendle, F.R.S.

Revision of Crombie's Monograph of British Lichens, Part I., by Miss A. L. Smith.

Catalogue of the Sloane Herbarium, by J. Britten.

Catalogue of Fossil Fishes, Part V., by Dr. A. S. Woodward, F.R.S.

Catalogue of the Cretaceous Flora, Part II., by Marie C. Stopes, D.Sc.

Guide to British Lichens.

Instructions for Collectors, No. 12, Worms, by H. A. Baylis.

Economic Series, No. 2, The Furniture Beetle, by C. J. Gahan.

General Library.

The additions to the General Library during the past year have been :—

By purchase	263	volumes.
By donation	557	volumes, 6 maps, and 45 photographs.
Total	820	volumes, 6 maps, and 45 photographs.

All the volumes and maps have been catalogued, press-marked, and put in their places; whilst 1,563 volumes have been bound in 698, and three have been repaired.

The extent of the collection on the 31st of December was 43,762 volumes, 5,916 maps, and 843 photographs (not including those in the Owen Collection of Drawings, &c.).

The accessions to the Departmental Libraries have also been catalogued as they came in, and duplicate transcripts of the titles have been returned with the books.

Altogether 2,432 title-slips have been written, 52 re-written, and 2,992 revised (independently of those prepared for printing).

There are now, on a rough estimate, 95,605 volumes (exclusive of continuations and minor separata) and 6,230 maps in the whole building.

The number of visits paid to the General Library during the year by students and others (irrespective of the staff and persons to whom the use of a key is granted) was 2,189.

Donations have been received from a great number of Museums, Academies, and other corporate bodies, as well as from the following personal donors :—

Lord Sudeley.
Andrews, Dr. C. W., F.R.S.
Barras de Aragón, Sr. D. Francisco.
Crick, G. C., Esq.
Elliott, I. D'Oyly, Esq.
Falconer, Dr. J. D., F.R.S.
Lang, W. D., Esq.
Newton, R. B., Esq.
Prout, L. B., Esq.
Sherborn, C. Davies, Esq.
Smith, E. A., Esq., I.S.O.
White-Cooper, Dr. G.
Woodward, Dr. A. Smith, F.R.S.
Woodward, B. B., Esq.

The printing of the Catalogue was proceeded with, and the work at the end of the year stood as follows :—

Number of sheets passed for press (A—WENT) - 287
Number of title-slips set up in type (A—WILLS) - 65,457

The work of cataloguing the Walsingham Library of Entomological literature has been begun, and the titles of works in it that are new to the whole collection are being incorporated in the now extensive Supplement to the Catalogue ready for printing.

Index Generum et Specierum Animalium.

During the year considerable progress has been made with this Index, under Mr. C. Davies Sherborn's charge, and some 15,000 slips have been compiled and incorporated.

The manuscript is continually consulted by the Staff, and general inquiries are more frequent.

Leem's "De Lapponibus," 1767 (Thos. Pennant's copy); Zauchner's "Bestimmung der Hundsart Krokute," 1788;

Hopfner's "Magasin für die Naturkunde Helvetiens," 1787–89, 4 vols.; "Synopsis of the Contents of the British Museum," 4th edition, 1811; and Lamarck's "Recueil des Planches," 1823 (a perfect copy), have all been acquired by Mr. Sherborn for the Library.

The following bibliographical results have been published by Mr. Sherborn in the "Annals and Magazine of Natural History," viz.:—

1°. "On the contents of the parts and dates of publication of C. W. Hahn and G. A. W. Herrich-Schaeffer, 'Die Wanzigartigen Insecten,' 1831–53." (Annals, Series VIII., vol. xiii, p. 365.)

2°. "An attempt at a fixation of the dates of issue of the parts of the publications of the Musée d'Histoire Naturelle of Paris, 1802–1850." (Annals, Series VIII., vol. xiii, pp. 365–368.)

3°. "On the dates of publication of C. W. Hahn and C. L. Koch, 'Die Arachniden,' 1831-1849." (Annals, Series VIII., vol. xiv, pp. 143–144.)

Index Museum and Morphological Collections.

The representative series of specimens collected on the British Antarctic ("Terra Nova") Expedition, which had been on exhibition in the Hall since November 25th, 1913, was dismounted in July; and the two cases thus liberated were used for the display of a selected series of forty skulls of extinct Vertebrates showing interesting peculiarities of dentition, a series of twenty human skulls illustrating ethnological peculiarities of dentition, a collection of twenty-three skulls of apes, seals, &c., showing teratological and pathological conditions of the teeth, and seven preparations demonstrating the transitory teeth of Baleen Whales and the mode of growth of the whalebone.

In the middle of the Hall has been set up a special series of specimens and enlarged models illustrating the life-history of the Bont Tick, *Amblyomma hebraeum*, which is responsible for the spread of the disease known as "heart-water" among sheep and goats in South Africa.

A new form of public microscope for the display of five slides in rotation has been designed and constructed and placed in the Hall with specimens illustrating the life-history of the tropical Plague-Flea, of which an enlarged model is already exhibited in the middle of the Hall.

In the Mendelian series in Bay VI three Andalusian Fowls have been mounted as an instance of a cross-bred individual differing from both parents.

All the dissections exhibited in the Hall that are mounted in preservative fluid have been inspected during the year; forty-four bottles have been resealed, and fifty-two replenished.

An introductory series of a very elementary character, which has been in contemplation for the past few years, is now progressing. The series will be displayed in four special table-cases in the middle of the Hall, and will comprise selected specimens of animals, plants, minerals, and rocks. One of the four cases will be devoted to the study of Vertebrate animals and allied groups, and the series to occupy this case is already roughly planned out.

L. Fletcher,
Director.

British Museum (Natural History),
27 February, 1915.

Department of Zoology.

I.—*Arrangement and Conservation.*

Mammalia.

Mammal Galleries.

A new wall-case has been installed in the West Corridor for the reception of Antelopes of the *Oryx* group, which have been removed from the adjacent case. In the latter have been placed various members of the Kudu group which were previously shown in temporary cases, together with the Indian Four-horned Antelope, transferred from the Lower Mammal Gallery. The addition of this new case also involved the transference to other parts of the gallery of a number of skulls and horns which occupied the wall of the recess where it now stands.

In the Lower Mammal Gallery two doors have been made in each side of the great Ox-case in the Pavilion ; an improvement which involved repairs in the ground-work of the case. A new case for Chitas has been installed in the second bay on the south side, which rendered necessary partial re-arrangement of the large Cat-case on the east side of the bay. Two doors have been inserted in the south side of the big Ape and Monkey case in the Upper Mammal Gallery ; and the partition at the east end of the same case has been enlarged, with the object of exhibiting to greater advantage the new Gorilla. To the Beaver case in the Upper Mammal Gallery have been added some gnawed stumps and chips specially sent from Canada by R. Corry Clark, Esq.

In the North Hall a new case has been placed alongside that containing the skeleton of "Persimmon," for the reception of the skeleton of "St. Simon."

Throughout the Upper and Lower Mammal Galleries, as well as in the East and West Corridors, the specimens have been renumbered. The usual work of curating, writing, and printing new labels, &c., has been carried on as required.

The additions by presentation during the year to the exhibited series in the Mammal Galleries include the following :—

An Eastern Gorilla (*Gorilla gorilla berengeri*) from the Belgian Congo, presented by the Rowland Ward Trustees. This is probably the most valuable mounted specimen the Museum has ever received. A bust of a Maori, presented by Mrs. Russell. A group of English Squirrels (*Sciurus vulgaris leucourus*), from Yorkshire, the gift of Harold D. Foster, Esq. A Black-footed Marten (*Martes melampus*) from Japan, and an American Marten (*Martes americanus*), from the Mackenzie District of Canada, presented by Messrs. P. R. Poland and Sons. A White Fox (*Vulpes vulpes*), from Siberia, a Sumatran Clouded Leopard (*Felis nebulosa*), a Cameroons Forest-Hog (*Hylochœrus meinertzhageni rimator*), the head of a young

Grevy's Zebra (*Equus grevyi*), from Somaliland, and a young Malay Elephant, which has been made the type of a new race (*Elephas maximus hirsutus*), presented by the Rowland Ward Trustees, and a pale-coloured Soemmerring's Ariel Gazelle (*Gazella soemmerringi*), from the Dinder Valley, Eastern Sudan, the gift of Major C. R. Bradshaw.

In addition to the above, as a specimen of more than ordinary interest, reference may be made to the skull of a very large female Liberian Hippopotamus (*Chæropsis liberiensis*), from Sierra Leone, acquired (together with the skin, which is in store) by purchase.

Whale-Room.—To the series of casts of flippers and whales exhibited on the walls of the gallery have been added two of the Hump-backed Whale (*Megaptera nodosa*), prepared from a specimen collected during the Barrett-Hamilton Expedition to South Georgia; and also two of the Lesser Rorqual (*Balaenoptera acutorostrata*), likewise prepared in the Museum. Other additions comprise part of the "bonnet" of the Southern Right-Whale (*Balaena australis*), from South Georgia, presented by the British Association and the Zoological Society; the cast of a Dolphin (*Delphinus delphis*), from Donegal, prepared in the Museum; and four photographs of dead Rorquals in South Georgia, the gift of Mr. P. Stammwitz.

The walls and roof of the Whale-Room were revarnished during the year; an operation which involved the removal and replacing of all the smaller specimens and pictures affixed to the walls.

Study Series.—The usual work of labelling, registering, and incorporating the mammals added to the collection has been continued.

Two cabinets for storing small mammals have been added, and two blocks of cabinets for storing medium-sized mammal skins have also been acquired.

The collection of Insectivora has been re-arranged and placed in the new small room The collection of Ungulates has been re-arranged according to Mr. Lydekker's "Catalogue of the Ungulate Mammals."

The Department is again indebted to volunteer helpers for much valuable assistance in working out new forms of Mammals and in the preparation of manuscript lists of various groups. The following should be specially mentioned in this connection: - Mr. Gilbert Blaine, Mr. R. C. Wroughton, Miss Kathleen Ryley, Mr. T. B. Fry, and Mr. Martin A. C. Hinton.

The Department is further indebted to Mr. Gilbert Blaine for having kindly assisted Mr. Lydekker in the preparation of the Second and Third Volumes of the Catalogue of Ungulates.

In connection with the Bombay Natural History Society's Survey of the Mammals of India, Miss Kathleen Ryley, Mr. R. C. Wroughton, and Mr. T. B. Fry have worked out the various collections, published reports on them, and selected series for registration.

The services of Dr. Knud Andersen have been continued for the preparation of the second volume of the Catalogue of Bats.

The second and third volumes of the Catalogue of the Ungulate Mammals, by Mr. R. Lydekker and Mr. G. Blaine, have been published ; and a new Edition of the Mammal Guide has also been published, after revision by Mr. Lydekker.

The arrangement of the collection of skeletons has made steady progress during the year; but the rate at which this work can be done depends on that of the supply of new cabinets.

A considerable amount of Cetacean material was received from S. Georgia in February as the gift of Messrs. Chr. Salvesen and Co. This included complete sets of the baleen of the Common Rorqual, of Sibbald's Rorqual, and of the Humpback Whale. Paddles of each of these species were also received, as well as fœtuses, portions of skin, and a few other parts.

An attempt was made to preserve the baleen so that at some future time it can be affixed to its appropriate skull as in life. There is some reason to hope that this experiment will prove successful.

In addition to the casts of the paddles of these whales, both before and after dissection, made for the Whale Room, casts of the carpal region have been prepared for use in the Study Collection.

Casts and dissections have also been made of the paddles of the Atlantic Right Whale (*Balæna biscayensis*), and of the rare Sowerby's Whale (*Mesoplodon bidens*) referred to elsewhere in this Return.

Aves.

The remounting of specimens in the General Gallery has been continued. Many of the leading types of Flycatchers (Muscicapidæ) have been mounted, while the remainder, as well as representative sets of the Swallows (Hirundinidæ), Cuckoo-Shrikes (Campophagidæ), Bulbuls (Pycnonotidæ), and Babblers (Timeliidæ), are in Messrs. Rowland Ward's hands.

The cases 69–70 containing the American Chatterers (Cotingidæ), Manakins (Pipridæ), Tyrant-Birds (Tyrannidæ), Ant-Thrushes (Pittidæ), &c., have been filled with the newly mounted specimens and finally arranged. The following species, examples of which have been mounted and added to the General Gallery, are worthy of special note :—A remarkable and very rare Giant Ibis (*Thaumatibis gigantea*) from Siam, presented by K. G. Gairdner, Esq. A mounted specimen of *Casuarius sclateri* from Dutch New Guinea, presented by the Subscribers to the Wollaston Expedition.

Examples of the Emperor Penguin and of the Adélie Penguin, procured by the late Dr. E. A. Wilson during the

Scott ("Terra Nova") Expedition, have been added to the Penguin case; also a very fine specimen of the King Penguin (*Aptenodytes patagonica*) from South Georgia, which recently died in the Zoological Society's Gardens.

Two models of the Great Auk have been constructed and substituted for the specimens which have for many years been on exhibition in the General Gallery and British saloon.

In the Bird Room the Index to the volumes of the special Reference Catalogue has been completed and good progress has been made with the relabelling of the cabinets, drawers and boxes containing the species, so that any box which has been taken out for examination can be put back in its place by referring to a reference-number clearly marked on each. Great saving in time will thus be effected.

The Vultures and Secretary Birds have been arranged in new cabinets.

Register-numbers have been put on three thousand two hundred and thirty-four eggs of the Seebohm Collection and two thousand seven hundred and twenty-three of the Radcliffe Saunders Collection.

The Styan Collection of Chinese birds has been registered.

Mr. D. A. Bannerman has given much assistance in working out the collections formed by the late Mr. Boyd Alexander in the Island of St. Thomas and Prince's Island.

Mr. Claude H. B. Grant has also rendered great help by working out the extensive East African Collections presented to the British Museum by Capt. Gordon P. Cosens and collected by Mr. Willoughby P. Lowe.

Capt. H. Lynes, R.N., has also been engaged in working out the Chapman-Lynes collections from the Blue and White Niles and the hinterland of Suakim. These collections were presented by Mr. Abel Chapman and Capt. H. Lynes and had been collected with the assistance of Mr. Willoughby P. Lowe.

Mr. Arthur Denman has very kindly assisted in preparing some of the recently received collections for incorporation.

The work in the Bird Room has been retarded by the absence of Mr. Court Treatt on active service for the War.

The more notable presents were the following:—

From Mr. W. McOran Campbell a collection of birds and eggs from Iceland. From Dr. Philip Gosse a collection of birds from the Balearic Islands. From Mr. Abel Chapman and Capt. H. Lynes, R.N., a large and important collection from the Blue and White Niles and the hinterland of Suakim. From Lord Brabourne, a large collection chiefly from Peru. From the British Association and Zoological Society, a collection of birds and eggs from South Trinidad and South Georgia From Capt. F. M. Bailey, a collection of rare species, mostly game birds, from Tibet, &c. From the British Antarctic Expedition, a collection of birds and eggs. From the Trustees of the

late James Rowland Ward, a collection of specially selected birds, beautifully mounted for exhibition.

Among the most important purchases are :—

A large collection of British birds formed by Mr. Claude H. B. Grant. A valuable collection from Chin-wang-tao, N. China. A further collection of birds from the high mountains of Yemen, procured by Mr. G. W. Bury and containing many new species. A very valuable and representative collection of West Indian birds formed by Dr. Percy R. Lowe. A large collection from Merida, Western Venezuela.

During the year the collection has been regularly consulted by a large number of visitors; and systematic work has been done on various groups by Mr. W. L. Sclater, Mr. E. C. Stuart Baker, Mr. C. H. B. Grant, Mr. D. A. Bannerman, Lord Brabourne, Mr. G. M. Mathews, Mr. T. Iredale, Dr. P. R. Lowe, Mr. H. F. Witherby, The Hon. Walter Rothschild, Dr. E. Hartert, Rev F. C. R. Jourdain, Dr. H. Langton, the Marquess of Tavistock, Miss A. Jackson, Colonel R. G. Wardlaw Ramsay, Mr. Willoughby P. Lowe, Capt. H. Lynes, Mr. Collingwood Ingram and Dr. C. B. Ticehurst.

Various artists engaged in preparing drawings for forthcoming works have also made regular use of the collection, viz.:—Mr. H. Grönvold, Mr. G. E. Lodge, Mr. Archibald Thorburn, Mr. R. Green, Mr. H. Goodchild, Miss Medland, Major H. Jones, Mr. Bernard Shaw, and Miss Winifred Austen.

In the Osteological Room the bird-skeletons have been rearranged and the task of labelling the cabinets has been commenced. One of the most valuable additions to this part of the collection is the skeleton of a Masai Ostrich, purchased.

Domesticated Animals.

North Hall.—The additions to this series include the following :—

Head of Nuer Humped Ox, with enormous horns, from the Sobat Valley, Upper Nile Province, presented by Capt. F. W. Woodward. Horns of Albanian Sheep, presented by Messrs. Rowland Ward, Ltd. A Loaghtan Ewe, from the Isle of Man, the gift of H. J. Elwes, Esq., F.R.S. Skeleton of the thoroughbred stallion "St. Simon," presented by His Grace the Duke of Portland, K.G. A Mummified Cat, from Bubastis, given by the Misses Villeneuve-Smith. An Albino Crested Grebe, from Kieff, Southern Russia, presented by Count A. Bobinsky.

Reptilia and Batrachia.

Reptile Gallery.—The roof of the gallery was repainted during the winter.

The additions include a plaster cast of the skull of the giant Galapagos Tortoise in the Scarborough Museum to which allusion was made in the Return for 1913, the gift of the Hon. Walter Rothschild, F.R.S.

A very fine Boa Constrictor (*Boa constrictor*), from South America, presented by the Zoological Society. The latter specimen and the Gabun Viper referred to in the previous Return have been painted under the personal superintendence of the Hon. Walter Rothschild (who also defrayed the artist's charges), and are now really life-like representations of their respective species.

Study Series.—All additions have been registered and incorporated, and the work of renewing the spirit and of replenishing jars has been proceeded with as usual.

Pisces.

All the accessions have been incorporated in the collection and have increased the congestion referred to in previous reports. The arrangement of the African Fresh-water Fishes in the order of Mr. Boulenger's new catalogue has been completed. The card-catalogue has been continued, the work of checking and cleaning the bottles and replenishing them with spirit has been carried on.

In the Exhibition Gallery some progress has been made. In the early part of the year Mr. A. J. Gear was engaged for a few weeks to cast and paint fishes, and in the last two months Mr. A. Fieldsend has been occupied with this work. It is intended gradually to replace the less satisfactory fishes in the gallery by better examples of the taxidermist's art and in time to organise a good exhibition of British Fishes.

Tunicata.

The collection of Tunicata has been entirely re-arranged in accordance with the latest classification and relabelled in the case of the great majority of the bottles; and steps have been taken to ensure conservation. A manuscript catalogue of the collection has been made.

Mollusca.

In the Shell Gallery the relabelling and remounting of the Sikes Collection of British land and freshwater shells have been continued, and arrangements have been made for accommodating the collection in new cases. The services of Mr. G. K. Gude have again been secured for continuing the re-arrangement, renaming, and relabelling of the exhibited series of Zonitidæ. Mr. E. A Smith, I.S.O., formerly Assistant-Keeper, has continued to give assistance, the value of which can hardly be over-estimated.

In the Spirit Building a large part of the collection of Cephalopoda has been regrouped and relabelled.

The collection of Mollusca obtained by the British Antarctic ("Terra Nova") Expedition has been received and sorted out. Most of the groups have been assigned to workers for study.

The Cephalopoda obtained in 1905 by the "Sealark" in the Indian Ocean have been fully worked out and a report has been prepared, with descriptions of new and interesting forms.

Other reports have been prepared upon a small collection of Cephalopoda from the Montebello Is., on the Australian species of the Family Mactridæ, and on general collections from South Africa, Lagos, the Philippine Is., Grand Cayman, and Easter Island. The anatomy of *Marinula tristanensis* has been studied and a paper upon it prepared for publication. The various conchological forms of *Bursa rubata*, a polymorphic species, have been described and figured. The study of the Gastropoda obtained by the "Terra Nova" has been commenced and is now in progress. Advice and assistance have been given for the carrying out of genetic experiments upon the albinic form of *Helix aspersa*. The arrangement and preparation of the Blanford and Godwin-Austen Collections of Indian land and fresh-water Mollusca have been continued by Lieut.-Col. H. H. Godwin-Austen, F.R.S.

During the year, 54 microscopic preparations, of which the majority were made in the Museum, have been added to the collection of slides. In the early part of the year an expedition was undertaken by Mr. Robson to Sardinia with the principal object of studying and collecting the Molluscan fauna of the central mountain range of the Island. Illness, however, prevented the attempt from being carried beyond the initial stages.

Brachiopoda.

The Brachiopoda obtained by the "Terra Nova" Expedition have been handed over to Mr. J. W. Jackson for study.

In addition to the above, only two other specimens have been added to the collection, *Lingula* sp. from Manila, presented by C. S. Betton, Esq., and *Terebratulina kiiensis* from Sagami, Japan, purchased.

Myriopoda and Arachnida.

Special attention has again been given to the study of parasitic Acari; and reports dealing with the forms occurring on the Brown Rat (*Epimys norvegicus*) in Great Britain and with those found on the species of Rodents which frequent human habitations in Egypt, have been prepared. The Arachnida and Myriopoda obtained by the British Ornithologists' Union Expedition and the Wollaston Expedition to Dutch New Guinea have also been reported upon. The arrangement and registration of the Koch Collection are still in progress, but the first half has been labelled and put away. Two more models of *Amblyomma hebræum* were made during the year. The series illustrating the external structure and stages in the life-history of a Tick is thus now complete, and it has been placed on exhibition in the Central Hall.

Crustacea and Pycnogonida.

All the exhibited specimens preserved in spirit have been overhauled and the jars have been cleaned and refilled.

Of the Norman collection 10,033 specimens have been registered during the year and the tubes containing them sealed with wax.

The Budde-Lund collection received in 1912 and the Koch collection received in 1913 still await attention, but it has not been possible to do more than dust and refill the bottles, and there is, unfortunately, no immediate prospect of these important collections being made accessible for study.

The number of accessions continues to diminish rapidly, and it has thus been possible to find places in the overcrowded Crustacea Room for most of the specimens received during the year.

A considerable part of the "Terra Nova" collection of Crustacea has been distributed to various specialists for examination. The collection of Pycnogonida has been studied, and a report on it is in preparation.

Prototracheata.

The most important event for many years in the history of the collection is the acquisition of the specimens got together by the late Prof. Adam Sedgwick, F.R.S.

Echinoderma.

Great difficulty has been experienced in finding accommodation for specimens preserved in spirit, and further orderly arrangement of species cannot be completely carried out.

Most of the specimens obtained during the year have been determined, and all have been incorporated.

Specimens of *Astrotoma agassizii* from the Antarctic have been mounted and added to the exhibited collection; and instructive series of dissected preparations of *Ophinotus viviparus* have been set out.

A revision of the MSS. Catalogue of Asteroidea was commenced, but has to yield to the necessity of working out the Echinoderms collected by the "Terra Nova."

Worms.

With the help of Mr. W. A. Harding for Leeches and of Dr. Cognetti de Martiis for Oligochæta, nearly all the worms obtained during the year have been determined and all have been incorporated.

Considerable progress have been made with the systematic arrangement of the microscopic slides; those of the Willey collection, which bore only numbers, have been labelled, and incorporated with the rest of the collection.

The collection of Rotifers was thoroughly revised by Mr. Rousselet, the original mounter.

The study collections of all groups of Parasitic Worms have been re-arranged, as far as the limited space in the Spirit Building permits, on a plan which renders them more readily

accessible for reference. At the same time, MS. lists of the Trematoda, Cestoda and Turbellaria, and of the Nematomorpha, have been compiled, the nomenclature being to a large extent brought up to date. The spirit in most of the bottles containing these collections has been renewed.

Many specimens have, while this work was proceeding, been mounted as microscopic objects, in which form they will be more accessible and generally useful. This statement applies mainly to the Cestoda and some of the small Nematoda.

Polyzoa.

Acquisitions have been labelled, registered, and incorporated.

Anthozoa.

The Coral Gallery was repainted and redecorated at the close of the year and the glass cases and shelves were cleaned inside.

Hydrozoa.

Mr. A. K. Totton, the new Assistant, has worked through the spirit collection of British Hydroida (Families Campanulariidæ, Sertulariidæ, and Plumulariidæ), and has spent much much time sorting and working out the "Terra Nova" specimens. He has been absent on active service for the War since the end of August.

Porifera (Sponges).

The re-sorting and working out of the Antarctic Sponges of the "Terra Nova" Expedition have been proceeded with.

II.—*Duplicates and Exchanges.*

(a) *Duplicates.*

Duplicates have been distributed among museums, scientific institutions, &c., as follows :—

Mammalia.—United States National Museum; Dr. Festa.

Aves. — Cheltenham College Museum ; Royal Albert Memorial Museum, Exeter ; Falkland Islands Museum ; Gloucester Museum ; Bailey Museum, Mansfield ; H.M.S. "Worcester."

Pisces.—Falkland Islands Museum ; Professor J. Graham Kerr, F.R.S. (University of Glasgow).

Tunicata.—Falkland Islands Museum.

Mollusca.—Falkland Islands Museum ; Leicester Museum and Art Gallery ; W. L. Reed, Esq.

Crustacea.—Falkland Islands Museum.

Echinoderma.— ,, ,, ,,

Polyzoa.— ,, ,, ,,

Sponges.— ,, ,, ,,

(b) *Exchanges.*

Exchanges have been made with the following institutions and individuals :—

Mammalia.—With the United States National Museum; Museum of Comparative Zoölogy, Harvard College; the Transvaal Museum; and Dr. J. A. Allen.

Aves. — With the Government Museum, Trivandrum; the Zoological Society of London; and Mr. Outram Bangs.

Batrachia. — With the Museum of Comparative Zoölogy, Harvard College.

Pisces.—With the Naturhistorisches Museum, Basel; the Senckenbergisches Museum, Frankfurt a. M.; the Museo Civico, Genoa; Professor Max Weber; and Dr. E. Zugmayer.

Tunicata.—With the Zoologisches Museum, Berlin (Prof. R. Hartmeyer).

Arachnida. — With the Albany Museum, Grahamstown; Professor G. H. F. Nuttall, F.R.S.; and Dr. Eugen Pawlowsky.

Crustacea.—With the Zoologische Sammlung des Bayerischen Staates, München (Dr. H. Balss).

Hydrozoa.—With Dr. C. McLean Fraser.

Porifera.—With the Indian Museum, Calcutta.

III.—*Departmental Library.*

The acquisitions of the Library of the Departments of Zoology and Entomology (including the Walsingham Library) during the year, obtained by purchase, presentation and exchange, consist of 76 separate works and pamphlets in 85 volumes, and 1,721 parts of periodicals and works in progress.

Three hundred and ninety-five volumes, including those belonging to the Walsingham Library, have been bound.

The work of collating, stamping, press-marking and entering all additions in the Catalogue has been performed as usual.

The Attendant in the Library, with the aid and supervision of an Assistant, has checked all the entries of Zoological Works in that portion of the General Catalogue of Books which has been printed during the year.

Of the donations the following work is worthy of special mention :— The Birds of Australia, Vol. iii., parts 5–6; and Vol. iv., part 1; presented by G. M. Mathews, Esq.

The following is a List of Donors to the Departmental Library during the year 1914 :—

Agricultural Adviser, Government of India; Pusa, Behar, British India.

Agricultural Experiment Station, Bozeman, Montana.

Agricultural Experiment Station, Fayetteville, Arkansas.

Agricultural Research Institute, Pusa, Behar, British India.

Anthropological Society, Bombay.
Arrow, G. J.
Australian Museum, Sydney.
Barnes, Dr. W.
Biologische Wolga-Station, Saratov.
Board of Agriculture and Fisheries.
Board of Agriculture and Forestry, Honolulu, Hawaii.
Booker, Bros., McConnell & Co., Ltd.
Botanic Gardens, Singapore.
British Ornithologists' Union.
Broun, Major T.
Bullen, G. E.
Bureau of Fisheries, Washington.
Calman, Dr. W. T.
Casey, T. L.
Conchological Society of Great Britain and Ireland.
Conseil permanent International pour l'Exploration de la Mer.
Dehaut, E. G.
Denbigh, Earl of, C.V.O.
Département van Landbouw, Nijverheid en Handel, te Buitenzorg, Java.
Department of Agriculture, Alberta, Canada.
Department of Agriculture, Kuala Lumpur, Federated Malay States.
Department of Agriculture, Madras Presidency.
Department of Agriculture, Ottawa, Canada.
Department of Agriculture, Sydney, N.S.W.
Department of Agriculture, Union of South Africa.
Department of Agriculture, Victoria.
Department of Agriculture, Wellington, New Zealand
Department of the Naval Service, Ottawa, Canada.
Department of Trade and Customs, Melbourne.
Dove Marine Laboratory, Cullercoats, Northumberland.
École de Médecine Tropicale, Junqueira-Lisbonne, Portugal.
Edwards, F. W.
Egyptian Government Zoological Service, Cairo.
Entomological Society, London.
Entomological Society, Ontario, Canada.
Fassl, A. H.
"Field," Editor of the.
Fishery Board for Scotland.
Fletcher, Dr. L., F.R.S.
Foreign Bird Club.
Godman, F. Ducane, F.R.S.
Hampson, Sir G. F., Bart.
Harmer, Dr. S. F., F.R.S.
Herdman, Prof. W. A., F.R.S.
Hewitt, Dr. C. Gordon.
Ichthyologisches Laboratorium der Kaspi-Wolgaschen Fischerei-Verwaltung in Astrachan.
Illinois State Laboratory of Natural History.
Imms, Dr. A. D.

Imperial Bureau of Entomology.
Imperial Department of Agriculture, West Indies.
India, Secretary of State for.
Indian Museum, Calcutta.
Indian Research Fund Association, Simla.
Kommissionen för Havundersögelser, Kjöbenhavn.
Kongliga Svenska Vetenskaps-Akademien, Stockholm.
Laboratorio di Zoologia Generale e Agraria della R. Scuola Superiore D'Agricoltura in Portici.
Lane, Major Clayton, M.D.
Linnean Society, London.
Lord Derby Natural History Museum, Liverpool.
Magyar Királyi Ornithologiai Központ, Budapest.
Marelli, Dr. C. A.
Mathews, G. M.
Mocsáry, A.
Musei Srpske Zemlie, Belgrade.
Museo de Ciencias Naturales, Hipódromo, Madrid.
Museu Goeldi de Historia Natural e Ethnographia, Para Brazil.
Museum of Comparative Zoölogy, Harvard College.
Nehrkorn, A.
New Jersey Agricultural College Experiment Station.
Office of the Administrator, Cape Town.
Pocock, R. I., F.R.S.
Ponsonby, J. H.
Port Elizabeth Museum.
Poulton, Prof. E. B., F.R.S.
Richardson, Major Gen. J. B.
Rijks Museum van Natuurlijke Historie te Leiden.
Rockefeller Foundation, International Health Commission Washington, D.C.
Royal College of Surgeons of England.
Royal Observatory, Greenwich.
Royal Zoological Society of New South Wales, Sydney.
Sars, Prof. G. O.
Sherborn, C. Davies.
Smith, E. A., I.S.O.
Smith, Miss.
Smits van Burgst, C. A. L.
Société Entomologique de Belgique.
Société Entomologique de France.
Société Entomologique de Russie.
Société Entomologique des Pays-Bas, Rotterdam.
Société Portugaise de Sciences Naturelles, Lisbon.
Solomon, J. I.
South African Ornithologists' Union, Pretoria.
State Fisheries, Sydney, New South Wales.
Superintendent of the Government Press, Madras, India.
Superintendent of Government Printing, Calcutta, India.
Thomas, O., F.R.S.
Trebilcock, R. E.

Tropical Diseases Bureau, Imperial Institute, London.
Tufts College, Massachusetts, U.S.A.
United States Department of Agriculture, Washington, D.C.
Universidade de Lisbon.
University of California.
University of Michigan, Ann Arbor, Michigan.
University of Nebraska, Lincoln, Nebraska.
University of Wyoming, Laramie, Wyoming.
Urich, F. W.
Wade, A.
Waterston, Rev. J.
Webermann, E. C.
Wilson Ornithological Club.
Woodward, B. B.
Wray, C. A.
Zoological Gardens, Giza, Egypt.
Zoological Museum, Copenhagen.
Zoological Museum, Tring.
Zoological Society, London.
Zoological Society, New York.
Zoological Society, Philadelphia.
Zoological Society, Tokyo.
Zoologische Staatssammlung, München.
Zoologisches Museum, Berlin.

IV.—*Publications.*

In addition to the official Catalogues and other volumes published by the Trustees (*see* pp. 113–115), various reports and descriptive papers have been prepared in connection with the different branches of the collection; and have been published for the most part in scientific journals.

For the convenience of reference the following list is appended:—

Mammalia.

By Oldfield Thomas, F.R.S.:—

"The Tree-Shrews of the *Tupaia belangeri-chinensis* Group." Ann. Mag. Nat. Hist. (8), xiii., p. 243.
"On various South American Mammals." *Ib.*, p. 345.
"Notes on the genus *Leggada*." Journ. Bombay Nat. Hist. Soc., xxiii., p. 682.
"On a Remarkable case of Affinity between Animals inhabiting Guiana, W. Africa, and the Malay Archipelago." Proc. Zool. Soc., p. 415.
"Scientific Results of the Mammal Survey, No. VII." Journ. Bombay Nat. Hist. Soc., xxiii., p. 23.
"New *Nasua*, *Lutra*, and *Proechimys* from South America." Ann. Mag. Nat. Hist. (8), xiv., p. 57.
"New South American Rodents." *Ib.*, p. 240.
"A new Genus of Bats allied to *Nyctophilus*." *Ib.*, p. 381.

MAMMALIA—*continued.*

"Four new Small Mammals from Venezuela." *Ib.*, p. 410.
"Scientific Results of the Mammal Survey, No. VIII."
Journ. Bombay Nat. Hist. Soc., xxiii., p. 197.
"A new *Soriculus* from the Mishmi Hills." *Ib.*, p. 683.
"On Mammals from Manus Island, Admiralty Group, and Ruk Island, Bismarck Archipelago."
Ann. Mag. Nat. Hist. (8), xiii., p. 435.
"New Asiatic and Australian Bats and a new Bandicoot."
Ib., p. 440.
"New *Callicebus* and *Eumops* from S. America."
Ib., p. 480.
"*Nomina conservanda* in *Mammalia*."
Zoologischer Anzeiger, xliv., p. 284.
"On Small Mammals from Djarkent, Central Asia."
Ann. Mag. Nat. Hist. (8), xiii., p. 564.
"Three new South-American Mammals." *Ib.*, p. 574.

By GUY DOLLMAN, B.A. :—

"A new Dormouse from Northern Nigeria, presented to the British Museum by J. C. Fox, Esq."
Ann. Mag. Nat. Hist. (8), xiii., p. 196.
"Notes on a collection of East African Mammals presented to the British Museum by Mr. G. P. Cosens."
Proc. Zool. Soc., 1914, p. 307.
"Notes on Mammals collected by Dr. Christy in the Congo and by Dr. Bayer in Uganda and British East Africa." Rev. Zool. Africaine, IV., fasc. I., p. 75.
"A new African Squirrel presented to the British Museum by Capt. the Hon. R. O. B. Bridgeman, R.N."
Ann. Mag. Nat. Hist. (8), xiv., p. 153.
"On a new Species of the rare Genus *Beamys* from Nyasaland." *Ib.*, p. 428.
"On the Spiny Mice of British East Africa, with a Description of a new Species from Magadi."
Ib., p. 485.
"Two new Pigmy Gerbils from British East Africa."
Ib., p. 488.
"On a new *Anomalurus* from the Cameroons."
Ib., p. 490.

By R. C. WROUGHTON :—

"Bombay Natural History Society's Mammal Survey of India, Burma and Ceylon—Report No. 15."
Journ. Bombay Nat. Hist. Soc., xxiii., p. 282.

By G. BLAINE :—

"Notes on the Korrigum, with a Description of Four new Races." Ann. Mag. Nat. Hist. (8), xiii., p. 326.
"An extinct Hartebeest from Egypt." *Ib.*, p. 335.
"On *Connochætes taurinus cooksoni*, subsp. n."
Ib., p. 337.

MAMMALIA—*continued.*

By Dr. KNUD ANDERSEN :—

"A new *Nycteris* from N.W. Rhodesia."
Ann. Mag. Nat. Hist. (8), xiii., p. 563.

By MARTIN A. C. HINTON :—

"On a new Species of *Myopus* from Central Asia."
Ann. Mag. Nat. Hist. (8), xiii., p. 342.

Aves.

By W. R. OGILVIE-GRANT :—

"Notes on the Spitzbergen Ptarmigan (*Lagopus hyperboreus*)." Bull. B.O.C., xxxiii., p. 32.

"On the remarkable dark young of the Starling found breeding in the Shetland Islands." *Ib.*, p. 63.

"On the eclipse plumage of Barrow's Golden-eye (*Clangula islandica*)." *Ib.*, p. 64.

"On an immature male example of the Carolina Crake (*Porzana carolina*) killed in the Outer Hebrides. *Ib.*, p. 82 and Brit. Birds, vii., p. 202.

"Notes on female specimens of Barrow's Golden-eye and of the Common Golden-eye (*Clangula islandica* and *C. glaucion*). *Ib.*, p. 102.

"On a pair of South Georgian Pintail (*Dafila georgicum*). *Ib.*, p. 104.

"On the specimen of Schlegel's Petrel (*Œstrelata neglecta*). from Cheshire. *Ib.*, p. 124.

"On an abnormally marked female Wigeon (*Mareca penelope*). *Ib.*, p. 125.

"On a new species of Ground-Robin (*Erythropygia ansorgei*). *Ib.*, p. 134.

"Remarks on the Flycatchers *Elminia teresita* and *E. longicauda*. *Ib.*, p. 135.

"On the colour and markings of the axillary-plumes of of the Common and American Wigeons (*Mareca penelope* and *M. americana*). *Ib.*, p. 135.

"On the down of the Common Teal and Garganey (*Querquedula crecca* and *Q. querquedula*). *Ib.*, p. 142.

Bulletin of the British Ornithologists' Club, Vols. xxxiii., xxxiv. (Report on the Immigration of Summer Residents) edited.

By C. CHUBB :—

"On a new species of Tinamou (*Nothocercus salvadorii*) from Ecuador." Bull. B.O.C., xxxiii., p. 95.

"Exhibition and description of two new species of birds from Guiana (*Planesticus arthuri* and *Euscarthmus josephinæ*)." *Ib.*, p. 131.

By LORD BRABOURNE and C. CHUBB :—

"Exhibition and description of two new species of birds from Peru (*Buarremon matucanensis* and *Upucerthia juninensis*)." Bull. B.O.C., xxxv., p. 20.

AVES—*continued.*

"A Key to the Species of the Genus *Crypturus*, with descriptions of some new Forms."
Ann. Mag. Nat. Hist. (8), xiv., p. 319.

By the HON. WALTER ROTHSCHILD, F.R.S. and C. CHUBB:—

"On a new form of Rhea."
Novitates Zoologicæ, xxi., p. 15.

By DAVID A. BANNERMAN:—

"On an Ornithological Expedition to the Eastern Canary Islands." Ibis, 1914, pp. 38, 228.

"On the Distribution and Nidification of the Tubinares in the North Atlantic Islands." *Ib.*, p. 438.

"Report on the birds collected by the late Mr. Boyd Alexander during his last expedition to Africa, Part 1. The Birds of Princes Island. *Ib.*, p. 596.

"Account of a recent visit to the Eastern Canary Islands and descriptions of two new sub-species (*Acanthis cannabina harterti* and *Saxicola dacotiæ murielæ*.)"
Bull. B.O.C., xxxiii., pp. 37, 56.

"Account of the Zoo-geographical divisions of the Canary Islands illustrated by Lantern Slides." *Ib.*, p. 115.

By CLAUDE H. B. GRANT:—

On the moults and plumages of the Common Moorhen.
Ibis, 1914, p. 298.

"On a new subspecies of African Guinea-Fowl."
Bull. B.O.C., xxxiii., p. 141.

"On three new subspecies from Africa."
Bull. B.O.C., xxxv., p. 19.

"On a new subspecies of Hammerkop (*Scopus*).
Ib., p. 27.

"On two new subspecies of African Kingfishers." *Ib.*, p. 28.

Reptilia and Batrachia.

By G. A. BOULENGER, F.R.S.:—

"An annotated list of the Batrachians and Reptiles collected by the British Ornithologists' Union Expedition and the Wollaston Expedition in Dutch New Guinea." Trans. Z.S., xx., p. 247.

"On a second collection of Batrachians and Reptiles made by Dr. H. G. F. Spurrell in the Choco, Colombia."
P.Z.S., 1914, p. 813.

"Description of a new Snake of the genus *Coluber* from Northern China."
Ann. Mag. Nat. Hist. (8), xiii., p. 576.

"Descriptions of new species of Snakes in the Collection of the British Museum." Op. cit., xiv., p. 482.

"Descriptions of new Reptiles from Siam."
Journ. N.H. Soc. Siam, i., p. 67.

"Contributo allo Studio sulla Fauna Libyca. Rettili e Batraci." Ann. Mus. Genova (3) vi., p. 79.

Pisces.

By G. A. Boulenger, F.R.S. :—

"Descriptions of three new species from South Cameroon. Ann. Mag. Nat. Hist. (8), xiv., p. 383.

"Descriptions of two new Fishes from Northern Rhodesia." *Ib.*, p. 385.

"Mission Stappers au Tanganika-Moero. Diagnoses de Poissons nouveaux. I. Acanthoptérygiens, Opisthomes, Cyprinodontes. Rev. Zool. Afr., iii., p. 442.

By C. Tate Regan, M.A. :—

"British Antarctic ('Terra Nova') Expedition, 1910." Zoology, Vol. I., Fishes, p. 1.

"Report on the Freshwater Fishes collected by the British Ornithologists' Union Expedition and the Wollaston Expedition in Dutch New Guinea." Trans. Zool. Soc., xx., p. 275.

"Note on *Aristeus goldiei* Macleay and on some other Fishes from New Guinea." Proc. Zool. Soc, 1914, p. 339.

"Diagnoses of new marine Fishes collected by the British Antarctic ('Terra Nova') Expedition." Ann. Mag. Nat. Hist. (8), xiii., p. 11.

"A Synopsis of the Fishes of the family Macrorhamphosidæ." *Ib.*, p. 17.

"Fishes from Yunnan, collected by Mr. J. Graham, with description of a new species of *Barilius*." *Ib.*, p. 260.

"Two new Cyprinid Fishes from Waziristan, collected by Major G. E. Bruce." *Ib.*, p. 261.

"Description of a new Cyprinodont Fish of the genus *Mollienisia* from Yucatan." *Ib.*, p. 338.

"The systematic arrangement of the Fishes of the family Salmonidæ." *Ib.*, p. 405.

"Fishes from the Condoto River, Colombia, collected by Dr. H. G. F. Spurrell." Ann. Mag. Nat. Hist. (8), xiv., p. 31.

"Descriptions of two new Cyprinodont Fishes from Mexico, presented to the British Museum by Herr A. Rachow." *Ib.*, p. 65.

Mollusca.

By G. C. Robson, B.A. :—

"Report on the Mollusca collected by the British Ornithologists' Union Expedition and the Wollaston Expedition in Dutch New Guinea." Trans. Zool. Soc., xx., p. 287.

"On *Veronicella nilotica*, Ckll." in J. Longstaff, "On a Collection of Non-Marine Mollusca from the Southern Sudan." Journ. Linn. Soc. Zool., xxxii., p. 233.

"Cephalopoda from the Montebello Is." Proc. Zool. Soc., 1914, p. 677.

MOLLUSCA—*continued.*

"On a collection of Land and Freshwater Gastropoda from Madagascar."
Journ. Linn. Soc. Zool., xxxii., p. 375.

"Molluscan Rubber Pests."
Journ. of Conchology, xiv., p. 225.

By E. A. SMITH, I.S.O.:—

"Note on *Haliotis sieboldii*."
Proc. Malac. Soc., xi., p. 4.

"A list of Australian Mactridæ." *Ib.*, p. 137.

"Descriptions of some South African Marine Shells."
Ann. Natal Museum, iii., p. 1.

"Note on *Bursa* (*Tutufa*) *rubeta* (Bolton) = *Triton lampas* (Lamarck et auctt)."
Journ. of Conchology, xiv., p. 226.

The following paper is based upon material which is almost entirely in the British Museum:—

By G. K. GUDE:—

"Descriptions of new Species of Helicoids from the Indian Region." Proc. Malac. Soc., xi., p. 52.

Myriopoda and Arachnida.

By A. S. HIRST:—

"Report on the Arachnida and Myriopoda collected by the British Ornithologists' Union Expedition and the Wollaston Expedition in Dutch New Guinea."
Trans. Zool. Soc., xx., p. 325.

"Preliminary List of the Acari occurring on the Brown Rat (*Mus norvegicus*) in Great Britain, with the description of a new species *Hæmogamasus oudemansi*)." Bull. Ent. Res., v., p. 119.

Crustacea.

By Dr. W. T. CALMAN:—

"On the Crustacean Genus *Sicyonella*, Borradaile."
Ann. Mag. Nat. Hist. (8), xiii., p. 258.

"Report on the River-Crabs (*Potamonidae*) collected by the British Ornithologists' Union Expedition and the Wollaston Expedition in Dutch New Guinea."
Trans. Zool. Soc., xx., p. 307.

"A new Crab of the Genus *Calappa* from West Africa."
Ann. Mag. Nat. Hist., (8), xiv., p. 493.

By Miss DOROTHY A. STEWART:—

"A report on the extra-antarctic Amphipoda Hyperiidea collected by the 'Discovery.'
Ann. Mag. Nat. Hist. (8), xii., p. 245.

CRUSTACEA—*continued.*

By Dr. W. A. CUNNINGTON :—

"Zoological Results of the Third Tanganyika Expedition. Report on the parasitic Eucopepoda."
Proc. Zool. Soc., 1914, p. 819.

The following paper is based partly on material in the British Museum :—

By Dr. WALTER M. TATTERSALL :—

"The Schizopoda, Stomatopoda, and non-antarctic Isopoda of the Scottish National Antarctic Expedition."
Trans. R. Soc., Edinburgh, xlix., p. 865.

Worms.

By Dr. LUIGI COGNETTI DE MARTIIS :—

"On a small collection of Earthworms from Henderson Island." Ann. Mag. Nat. Hist. (8), xiii., p. 255.

By H. A. BAYLIS, B.A. :—

"Preliminary Account of *Aspidodrilus*, a remarkable Epizoic Oligochæte."
Ann. Mag. Nat. Hist (8), xiv., p. 145.

"On a new Cestode from an Albatross, *Diomedea irrorata*." Proc. Zool. Soc., 1914, p. 407.

"On *Octopetalum*, a new genus of Avian Cestodes."
Ann. Mag. Nat. Hist. (8), xiv., p. 414.

By R. T. LEIPER, M.B., and Surgeon E. L. ATKINSON, R.N. :—

"Helminthes of the British Antarctic Expedition, 1910–1913." Proc. Zool. Soc., 1914, p. 222.

Porifera.

By R. KIRKPATRICK :—

"Fresh-water Sponges of the Volga-Basin."
Arb. a. d. biolog. Wolga-Station, 1914.

V.—*Acquisitions.**

MAMMALIA.

The additions to this class during the past year number two thousand four hundred and fifty-eight :—

Special attention may be directed to the large collections of Indian and Ceylon Mammals presented by the Bombay Natural History Society ; to the collections of South American and Siberian Mammals presented by Oldfield Thomas, F.R.S. ; and to the large collection of South American Mammals presented by the Hon. N. C. Rothschild.

* A table showing the number of specimens added during the year is given on page 156.

MAMMALIA—*continued.*

Europe.

Forty-three mammals from Hungary ; *presented by Fräulein Sarolta von Wertheimstein.*

The types of five new forms from the Inner Hebrides ; *presented by the Subscribers to the Fund for the Exploration of the Hebrides.*

A Stag's skull from Exmoor ; *presented by Morland Greig, Esq.*

Two paddles of the Atlantic Right Whale (*Balæna glacialis*) from Harris, Shetlands ; *presented by Carl F. Herlofson, Esq.*

A female Sowerby's Whale (*Mesoplodon bidens*), stranded at Rosslare during September ; *presented by the Board of Trade..*

A white-beaked Dolphin (*Lagenorhynchus albirostris*) from Wick, Caithness ; *presented by the Board of Trade.*

The skeleton of the famous Race-horse St. Frusquin ; *presented by the Hon. Leopold de Rothschild.*

Asia.

An albino Leopard from Bengal ; *presented by R. E. S. Thomas, Esq.*

Nineteen mammals from South Arabia ; purchased.

One thousand and fifty-three mammals, including the types of fourteen new forms, collected by Major E. W. Mayor and Messrs. G. C. Shortridge and C. A. Crump in Ceylon and India ; *presented by the Bombay Natural History Society.*

Seven mammals from Tibet, including the types of four new forms ; *presented by Capt. F. M. Bailey.*

Thirty-five mammals from Siam ; *presented by K. G. Gairdner, Esq.*

Eight mammals from China ; *presented by A. L. Hall, Esq.*

Eight mammals from Tian Shan ; *presented by Col. J. H. Abbot Anderson.*

Nineteen mammals from Central China ; *presented by Miss K. V. Ryley.*

Thirty-four mammals from W. Yunnan ; *presented by the Hon. N. C. Rothschild.*

One hundred and twelve mammals from Siberia ; *presented by Oldfield Thomas, Esq., F.R.S.*

Skeleton of a Bornean Spotted Dolphin (*Sotalia borneensis*) ; *presented by the Trustees of the Sarawak Museum, Borneo.*

Africa.

A mounted Gorilla from Baraka, Belgian Congo ; *presented by the Trustees of the late James Rowland Ward.*

MAMMALIA—*continued.*

Nine mammals from the Congo ; *presented by C. J. Blackburne-Maze, Esq.*

Forty-five mammals from South Nyasaland ; *presented by the Entomological Research Committee.*

A Rodent-Badger (*Lophiomys imhausi*) from Port Sudan ; *presented by Dr. M. E. Waterfield.*

Two Squirrels, representing a new species (*Paraxerus bridgemani*), from Panda, Portuguese East Africa ; *presented by Capt. the Hon. R. O. B. Bridgeman, R.N.*

Twenty-two Bats from East Africa ; *presented by G. P. Cosens, Esq.*

Five mammals from the Bahr-el-Ghazal ; *presented by Col. C. F. Blane.*

Eight mammals from Algeria ; *presented by the Hon. Walter Rothschild, F.R.S., and Dr. E. Hartert.*

A Hunting Dog from the White Nile ; *presented by F. Russell Roberts, Esq.*

Fifty mammals from Somaliland and Senegal ; *presented by G. Blaine, Esq.*

Five mammals from Zanzibar ; *presented by Dr. W. M. Aders.*

Sixty-five mammals from the Cameroons ; purchased.

Fifty-three mammals from the Congo and British East Africa ; *presented by the Musée du Congo Belge.*

Fifty mammals from the Sudan ; *presented by Abel Chapman, Esq.*

A Lion from the Guaso Nyiro River, British East Africa ; *presented by Sir Thomas R. Dewar.*

Nine mammals from Northern Nigeria ; *presented by Dr. J. C. Fox.*

Two mammals, including the type of a new bat (*Nycteris woodi*), from N. W. Rhodesia ; *presented by R. C. Wood, Esq.*

Eleven mammals from South Nyasaland ; purchased.

Twenty-five mammals from Natal ; *presented by R. C. Wroughton, Esq.*

A fœtal Rhinoceros from Mombasa ; *presented by W. B. Woosnam, Esq.*

The skull of a Hippopotamus ; *presented by Major-General H. R. Abadie, C.B.*

The skeleton of a Lion ; *presented by the Trustees of the late James Rowland Ward.*

America, South.

One hundred and twenty-six mammals from Ecuador ; *presented by Oldfield Thomas, Esq., F.R.S.*

MAMMALIA—*continued.*

Twenty-two mammals from S. E. Brazil; *presented by Prof. J. P. Hill, F.R.S.*

One hundred and thirty-six mammals from South America; *presented by the Hon. N. C. Rothschild.*

Thirty-nine mammals from Sta. Catharina; purchased.

Thirty-seven mammals from Colombia; *presented by Dr. H. G. F. Spurrell.*

Two Howling Monkeys from Argentina; *presented by R. F. Clark, Esq.*

Seven mammals from South America; *presented by the Goeldi Museum, Pará.*

Eight mammals from Peru; *presented by the late Capt. H. S. Toppin.*

Three mammals from Ecuador; *presented by W. Goodfellow, Esq.*

Twenty mammals from South America; *presented by the Buenos Aires Museum.*

Thirteen mammals from Demerara; *presented by Mrs. McConnell.*

A deformed skull (human) from Inca ruins, Peru; *presented by Dr. Foraldo.*

Australasia.

Three mammals from Australia; *presented by the Perth Museum, Western Australia.*

Forty mammals from the Admiralty Islands and New Guinea; purchased.

The "death-mask" of an Australian Aboriginal; *presented by Henry Mole, Esq.*

A skull of *Mesoplodon australis,* from Great Exhibition Bay, New Zealand; *presented by the British Antarctic ("Terra Nova") Expedition,* 1910.

Antarctica.

Two paddles of Sibbald's Rorqual (*Balœnoptera musculus*), and the scapula, and a vertebra of another specimen 95 feet long; two paddles of the Common Rorqual (*B. physalus*); two paddles of the Humpback-Whale (*Megaptera*); together with fœtuses and viscera of these Whales collected by the late Major G. E. H. Barrett-Hamilton in S. Georgia; *presented by Messrs. Chr. Salvesen and Co.*

AVES.

The acquisitions number seven thousand five hundred and sixty-two. Of these, the most noteworthy are as follows:—

From Various Localities.

Sixty-four birds from various localities, mounted for exhibition in the public gallery; *presented by the Trustees of the late James Rowland Ward.*

AVES—*continued.*

Europe.

Thirty-four birds and eighteen eggs from Iceland; *presented by W. McOran Campbell, Esq.*

One thousand, seven hundred and fifty-four British birds, twenty nests, and seventy-nine eggs, collected by Mr. C. H. B. Grant; purchased.

Fifty-one birds from the Balearic Islands; *collected and presented by Philip Gosse, Esq., M.R.C.S.*

Seventeen birds from Iceland; collected by Mr. G. B. Dinesen; purchased.

Four specimens of the Jackdaw (*Corvus monedula*) from Bedfordshire, showing the sequence of plumage; *presented by Her Grace the Duchess of Bedford.*

Nineteen birds, chiefly from Fortrose, N.B.; *presented by W. R. Ogilvie-Grant, Esq.*

Three birds from the Balearic Islands; received in exchange from the Tring Museum.

Four examples of the Razorbill, *Alca torda*, from Skomer Island; *presented by Lord Kensington, D.S.O.*

Eighty-seven birds from various localities in Great Britain; *presented by D. A. Bannerman, Esq.*

A British killed example of the Needle-tailed Swift (*Chætura caudacuta*) from Ringwood, Hants; *bequeathed by the late G. E. Corbin.*

A Sparrow-Hawk (*Accipiter nisus*) from Berwickshire; *presented by Miss D. M. A. Bate.*

Asia.

Twenty-nine birds and three eggs from Upper Burma; *collected and presented by Cyril Hopwood, Esq.*

Seven birds, including an example of the rare Giant Ibis, *Thaumatibis gigantea*, from Siam; *presented by K. G. Gairdner, Esq.*

Thirty birds, one nest, and one egg from Travancore; *presented by J. Stewart, Esq.*

Twenty-three birds from the Mishmi Hills, including the type-specimen of a newly described form, *Ixulus flavicollis baileyi; collected and presented by Capt. F. M. Bailey.*

Twenty-three birds from South China; *presented by Capt. H. Lynes, R.N.*

Three hundred birds from Chin-wang-tao, North China; purchased.

Three examples of the Mikado Pheasant, *Calophasis mikado*, bred in captivity; *presented by H. J. Elwes, Esq., F.R.S.*

AVES—*continued.*

Africa.

One thousand five hundred and ninety-one birds from the Blue and White Niles and the hinterland of Suakin ; collected with the assistance of Willoughby P. Lowe, Esq. ; *presented by Abel Chapman, Esq. and Capt. H. Lynes, R.N.*

Skeletons of a Pelican (*Pelecanus rufescens*), a Goliath Heron (*Ardea goliath*), an Open-bill Stork (*Anastomus lamelligerus*), a Marabout Stork (*Leptoptilus crumeniferus*) two Black-backed Geese (*Plectropterus gambensis*) and the sternum of an Ostrich (*Struthio, sp.*) from the Nile; *presented by Abel Chapman, Esq.*

Twelve birds from the district of Kordofan ; *presented by W. B. Halhead, Esq.*

Thirty-nine birds from South Tunisia ; *collected by the late Capt. J. B. Jenkinson, Rifle Brigade; presented by Mrs. Jenkinson.*

The type-specimen of a newly described species, *Salpornis occidentalis ; presented by Colonel Stephenson R. Clarke.*

Thirty-three birds from Zanzibar ; *presented by Dr. W. M. Aders.*

Thirteen birds from the South bank of the River Gambia ; *presented by Dr. E. Hopkinson.*

Sixty-one birds from Sierra Leone ; collected by Major H. J. Kelsall ; purchased.

An egg of *Eupodotis arabs* from Central Arabia ; *presented by Capt. W. H. I. Shakespear.*

One hundred and nineteen birds, including the type-specimen of a newly described form, *Lanius yemenensis*, from the high mountains of Yemen, South Arabia, collected by Mr. G. W. Bury ; purchased.

Nineteen birds from Algeria, and four from Lake Tanganyika district, received in exchange from the Tring Museum.

Six birds from South Biskra, Algeria ; purchased.

Thirty-three birds from Nyasaland ; *collected and presented by Sheffield A. Neave, Esq.*

Ten birds from Nyasaland ; purchased.

Five hundred and fourteen birds from the Orange River Colony ; *collected and presented by the late Major G. E. H. Barrett-Hamilton.*

Sixty-five specially selected Ostrich feathers showing the various types of growth and colour : *presented on behalf of the South African Ostrich Feather Breeders' Association by S. M. Gadd, Esq.*

Eight birds from Aldabra, Seychelles, and the neighbouring islands ; received in exchange from the Tring Museum.

A Masai Ostrich (*Struthio massaicus*) ; purchased.

AVES—*continued.*

America, North.

Three examples of a rare Ptarmigan, *Lagopus welchi*, from Newfoundland; *presented by R. G. Geoffrey Harley, Esq.*

Fifty-one birds from British Columbia; collected by Mr. J. A. Munro.

Twenty birds and four eggs from Colorado; received in exchange from Mr. W. Cross.

Fourteen birds from California; received in exchange from Dr. L. B. Bishop.

America, Central and South.

Nine hundred and fifty-five birds, chiefly from the West Indies; collected by Dr. Percy R. Lowe; purchased.

Two examples of a rare Duck, *Anas diazi*, from Mexico; received in exchange from the Museum of Comparative Zoölogy, Cambridge, Massachusetts.

Five birds from the West Indies and three from Venezuela; received in exchange from the Tring Museum.

Thirty birds, one nest, and five eggs from Tobago, West Indies, including *Saucerottia wellsi*, previously unrepresented in the collection; *collected and presented by W. E. Broadway, Esq.*

Twenty-one birds from the Lower Amazons, including fourteen species hitherto unrepresented in the collection; *collected and presented by Miss E. Snethlage.*

Nineteen birds from the Argentine Chaco; *collected and presented by R. F. Clark, Esq.*

Seven hundred and fifty birds from the neighbourhood of Merida, W. Venezuela; purchased.

Three hundred and fifty-seven birds, chiefly from Peru, including the type-specimens of two newly described birds, *Buarremon matucanensis* and *Upucerthia juninensis: collected and presented by Lord Brabourne.*

Australasia.

An example of *Casuarius sclateri* from South Dutch New Guinea; purchased from the Zoological Society of London.

Six birds from Goodenough Island; collected by Mr. A. S. Meek; purchased.

Seventy-eight birds from New Guinea and the Papuan Islands, including male and female examples of *Pitta superba* from the Admiralty Islands, and the type-specimen of a newly described form from the Solomon Islands, previously unrepresented in the collection; received in exchange from the Tring Museum.

Antarctica.

One hundred and eight birds and thirteen eggs, collected by the late Dr. E. A. Wilson during the voyage of the "Terra

AVES—*continued.*

Nova"; *presented by the British Antarctic ("Terra Nova") Expedition*, 1910.

Six birds from the South Shetland Islands; *presented by His Excellency the Governor of the Falkland Islands.*

Ninety-three birds and sixteen eggs from South Georgia; *presented by the British Association and the Zoological Society of London.*

REPTILIA.

Six hundred and thirty-three specimens were added to the collection, four hundred and ninety-one by presentation, one hundred and thirty-five by purchase, and seven by exchange.

The following are the more notable accessions:—

Europe.

Thirty-seven specimens from Northern Spain, collected by Mr. E. Britten; purchased.

A remarkable colour-variety of the Common Snake, *Tropidonotus natrix*, from Florence; purchased.

Sixteen Lizards from Giglio Island, collected by the late Marquis G. Doria; *presented by the Genoa Civic Museum.*

Eleven specimens from Southern Europe; *presented by Dr. P. Lehrs.*

Twenty-six Lizards from Southern Europe, collected by Dr. R. Ebner; purchased.

Asia.

The types of a new Snake (*Coluber halli*) from Northern China; *presented by A. L. Hall, Esq.*

The type of a new Snake (*Amblycephalus stanleyi*) from N.W. Fokien; *presented by Arthur Stanley, Esq.*

Fourteen specimens from Yunnan, collected by Mr. J. Graham; purchased.

Seventeen specimens from Siam, including types of a new Lizard (*Lygosoma anguinoides*) and of two new Snakes (*Simotes inornatus*, *Hypsirhina smithii*); *presented by Dr. Malcolm Smith.*

Seven rare Earth Snakes (*Uropeltidæ*) from the Nilgherries, S. India; purchased.

Young specimens of the rare Gecko *Mimetozoon craspedotum*, from Sarawak; *presented by J. Hewitt, Esq.*

Africa.

Fifteen specimens from Egypt and the Sudan; *presented by the Egyptian Government.*

REPTILIA—*continued*

Twenty-two specimens collected by Mr. W. P. Lowe in Nubia and the Red Sea Province of the Sudan, including a Lizard new to the collection (*Mabuia wingatii*) and a new Snake (*Contia africana*); *presented by Abel Chapman, Esq.*

Four specimens collected by Dr. E. J. Baxter in Usagara, East Africa; purchased.

Four specimens from the Gold Coast and Northern Nigeria; *presented by J. Morrow Campbell, Esq.*

Five Snakes from the Gold Coast; *presented by Dr. Scott Macfie.*

A rare Amphisbæna (*Amphisbæna liberiensis*) from Sierra Leone; *presented by Guy Aylmer, Esq.*

A rare Snake (*Elapechis moebii*) from Nigeria; *presented by Prof. J. W. W. Stephens.*

Twenty-one specimens collected by Mr. G. L. Bates in S. Cameroon, including types of a new Blind Snake (*Typhlops vermis*); purchased.

Three Snakes from the Kasai, Belgian Congo; purchased.

Seven Snakes from S. Rhodesia; *presented by Mrs. E. Spenser Jones.*

Twenty-one specimens from Namaqualand, part of a collection made by the Hon. P. A. Methuen and including the co-type of a new Gecko (*Narudasia festiva*); *presented by the Trustees of the Percy Sladen Funds.*

America.

A Snake from Florida (*Tropidonotus compressicauda*) new to the collection; received in exchange from the Museum of Comparative Zoölogy, Cambridge, Mass.

Examples of a rare Lizard (*Cricosaura typica*), from Cuba, new to the collection; received in exchange from the Museum of Comparative Zoölogy, Cambridge, Mass.

One hundred and forty-three specimens from Mexico; *presented by Dr. H. Gadow, F.R.S.*

A remarkably large Boa Constrictor, from Trinidad; *presented by the Zoological Society of London.*

Seventy-six specimens from the Choco, Republic of Colombia, including types of two new Lizards (*Lepidoblepharis intermedius, Polychrus spurrelli*) and of three new Snakes (*Leptophis brevis, Homalocranium nigrum, Elaps spurrelli*); *presented by Dr. H. G. F. Spurrell.*

BATRACHIA.

Two hundred and ninety-two specimens were added to the collection, two hundred and thirty-nine by presentation, forty-eight by purchase, and five by exchange.

BATRACHIA—*continued.*

The following are the more notable accessions :—

Europe.

Examples of a Frog (*Rana arvalis*), new to Belgium, discovered in July 1914 in a bog at Brecht near Antwerp, and *presented by G. A. Boulenger, Esq., F.R.S.*

Eighteen specimens from Northern Spain, collected by Mr. E. Britten; purchased.

Asia.

Examples of a rare burrowing Frog (*Glyphoglossus molossus*) from Siam; *presented by Dr. Malcolm Smith.*

Seventy-six Frogs from Sarawak, including one (*Chaperina fusca*) new to the collection; *presented by J. Hewitt, Esq.*

Africa.

Six Frogs from Usagara, East Africa, collected by Dr. E. J. Baxter; purchased.

Twenty specimens from South Cameroon, collected by Mr. G. L. Bates; purchased.

America.

A rare Frog (*Rana virgatipes*) from North Carolina and another (*Hyla andersoni*) from the State of New York, new to the collection; received in exchange from the Museum of Comparative Zoölogy, Cambridge, Mass.

One hundred and six specimens from Mexico; *presented by Dr. H. Gadow, F.R.S.*

Seventeen specimens from the Choco, Republic of Colombia, including the type of a new Frog (*Atelopus spurrelli*) and a Salamander (*Spelerpes parvipes*) new to the collection; *presented by Dr. H. G. F. Spurrell.*

Six rare Batrachians obtained in Brazil by Prof. J. P. Hill, F.R.S.; *presented by the Trustees of the Percy Sladen Funds.*

PISCES.

The additions number one thousand and four, nine hundred and eight were presented, ninety were purchased, and six were received in exchange. The most important are :—

Europe.

A Char (*Salvelinus willughbii*) from Loch Brora; *presented by A. J. Gear, Esq.*

A ripe female Salmon (*Salmo salar*) only 12½ inches long, from Loch Spynie; *presented by "The Field."*

Two large Roach (*Leuciscus rutilus*) from Hornsea Mere; *presented by M. Kempsey, Esq.*

An Eel (*Anguilla vulgaris*) with ovaries developed, from Liverpool; *presented by R. B. Marston, Esq.*

PISCES—*continued.*

A large hybrid Bream and Roach (*Abramis brama* × *Leuciscus rutilus*) from Tortworth; *presented by the Earl of Ducie, G.C.V.O., F.R.S.*

Five Sea-Trout (*Salmo labrax*) from the Black Sea; purchased.

Asia.

Twenty examples of a Cyprinodont (*Cyprinodon mento*) new to the collection, from the Syrian Desert; *presented by the Hon. N. C. Rothschild.*

Thirty-two Cyprinoid Fishes from Persia, including examples of three species (*Capoeta heratensis, Abramis fasciatus* and *Nemachilus malapterurus*) new to the collection; *presented by Major P. M. Sykes.*

A Cyprinid Fish, new to the collection, co-type of *Aspiopsis merzbacheri,* from Central Asia; received in exchange from Dr. E. Zugmayer.

Fifty Fishes from Yunnan, including the types of a new Cyprinid (*Barilius alburnops*); collected by Mr. J. Graham; purchased.

Ten Japanese Sardines (*Clupea melanosticta*) from Japan; *presented by H. Seno, Esq.*

Africa.

A large Murry (*Muræna helena*) from Morocco; *presented by Messrs. Sellick, Morley and Price.*

Eighty-one marine fishes from Lagos, including the types of seven new species (*Rhynchobatus atlanticus, Hoplunnis punctatus, Arctoscopus albesca, Lepidotrigla cadmani, Solea chirophthalmus, Batrachoides beninensis* and *Cynoglossus lagoensis*); *collected and presented by J. Cadman, Esq.*

Thirteen Fishes from Sierra Leone, including the types of four new species (*Haplochilus annulatus, Barbus leonensis, Tilapia thomasi* and *Eleotris leonensis*); *presented by N. W. Thomas, Esq.*

Seventeen Fishes from South Cameroon, including the types of a new species (*Tilapia margaritacea*), collected by Mr. G. L. Bates; purchased.

Thirty-seven Fishes from Central Africa, including the types of four new species (*Haplochromis schubotzi, H. graueri, H. angustifrons* and *Schubotzia eduardiana*); collected and *presented by Dr. H. Schubotz.*

Ten Fishes from Northern Rhodesia, including the types of two new species (*Barbus barilioides* and *Mastacembelus mellandi*); *presented by F. H. Melland, Esq.*

America.

Forty Fishes from Mexico; *presented by Dr. H. Gadow, F.R.S.*

PISCES—*continued.*

Thirty-three Fishes from tropical America, including the types of two new Cyprinodonts (*Gambusia yucatana* and *Heterophallus rachovii*) from Southern Mexico; *presented by Herr A. Rachow.*

Thirty-five Fishes, mostly from tropical America, including the types of a new Cyprinodont (*Mollienisia velifera*) from Yucatan; *presented by Herr J. P. Arnold.*

One hundred and twenty-two Fishes from the Condoto River, Colombia, including the types of three new species (*Sternarchus spurrellii*, *Hypopomus occidentalis* and *Sicydium condotense*); *collected and presented by Dr. H. G. F. Spurrell.*

Sixteen Fishes from Chile and Argentina; *presented by Dr. P. Franck.*

Australasia.

Two Cyprinodont Fishes from Celebes, co-types of *Haplochilus sarasinorum*, new to the collection; received in exchange from the Basle Museum.

Two Atherinid Fishes from New Guinea, co-types of *Aristeus loriæ*; received in exchange from the Genoa Museum.

An Atherinid Fish from the Aru Islands, co-type of *Rhombatractus senckenbergianus*; received in exchange from the Senckenberg Museum, Frankfurt.

Three hundred and eleven Fishes from New South Wales, including examples of several species new to the collection; *presented by D. G. Stead, Esq.*

Two examples of *Belonopterygium fasciolatum*, a new Percoid Fish from Lord Howe Island; *presented by A. R. McCulloch, Esq.*

Antarctica.

Sixty-four Fishes from South Georgia, including examples of *Parachænichthys georgianus*, new to the collection; collected by Mr. P. Stammwitz; *presented by the British Association and the Zoological Society of London.*

TUNICATA.

One hundred and sixty specimens of Tunicata were received, the most important of which were numerous schizotypes and co-types; obtained by exchange with the Berlin Museum.

MOLLUSCA.

The total number of acquisitions during the year amounts to three thousand seven hundred and twenty-one; two thousand seven hundred and fifty-four were presented, representing eighty-seven separate donations, and nine hundred and sixty-seven were purchased.

MOLLUSCA—*continued.*

The most noteworthy accessions during the year are :—

A collection of Cephalopoda obtained by the "Sealark" in the Indian Ocean during the cruise of 1905, including several rare and unique examples; *presented by the Trustees of the Percy Sladen Memorial Fund, through Professor J. S. Gardiner, F.R.S.*

A specimen of a rare Cephalopod, *Sepiadarium auritum,* from the Montebello Is.; *presented by Paul A. Montague Esq.*

A large collection of land and freshwater Mollusca from East and Central Madagascar; *presented by M. Perrier de la Bathie and the Hon. P. A. Methuen.*

The following accessions are also worthy of note :—

General.

Ten types of species of land Mollusca from various localities in Australia, New Zealand and the Pacific Islands; *presented by E. R. Sykes, Esq.*

Europe.

One hundred and forty-two examples of British Economic Mollusca from various trade localities; *presented by the Fishmongers' Company.*

Eight examples of *Ostræa edulis* from extinct British and Continental "scaups"; *presented by Alfred Bell, Esq.*

Six examples of a giant variety of *Purpura lapillus* from the Bristol Channel; *presented by the Rev. Dr. A. H. Cooke.*

Three hundred and ninety-six land and fresh-water Mollusca from Orkney, Shetland, and the Outer Hebrides; *presented by the Rev. James Waterston.*

Asia.

Four hundred and twenty-five marine Mollusca from Port Galera, Mindoro; *presented by Prof. L. E. Griffin.*

Twenty-two examples of *Nautilus pompilius* and twenty-five other marine Mollusca from New Britain; *presented by Dr. A. Willey, F.R.S.*

Africa.

Fifty-four shells of *Ennea* from South Africa, including four types and other figured specimens; *presented by Henry Burnup, Esq.*

Twenty-five examples of *Marinula tristanensis* from Inaccessible I., Tristan d'Acunha; *presented by Major M. Connolly.*

Preparations of the radula and jaw of the same species; *presented by Major A. J. Peile, R.A.*

A large series of shells of *Modiolaria varicosa* from the Kerimba Archipelago; *presented by E. Heron-Allen, Esq.*

MOLLUSCA—*continued.*

Fifty land Mollusca, mainly from the Knysna Forest, South Africa; *presented by Mrs. G. B. Longstaff.*

Eighty-four marine Mollusca from off Lagos; *presented by J. Cadman, Esq.*

Pacific.

Forty-seven shells from Lord Howe Id., including many types; purchased.

Fifty-two shells from Norfolk Id., including many types; purchased.

Sixty-one land Mollusca from Honolulu; *presented by John H. Ponsonby, Esq.*

America, South.

Thirty-one shells of land Mollusca from exotic localities in E. Peru, Ecuador and Brazil; purchased.

Antarctica.

Two hundred and seventy-two marine Mollusca from South Georgia collected by the late Major G. E. H. Barrett-Hamilton and P. Stammwitz; *presented by the British Association and the Zoological Society of London.*

MYRIOPODA.

The accessions number fifty-two; with the exception of a Leaf-Footed Centipede (*Alipes grandidieri*) from Uganda none are of exceptional interest.

PROTOTRACHEATA.

What was probably the best collection in the world of *Peripatus* and its allies has been made, for many years to come, incontestably the finest, by the accession of one hundred and twenty-five examples, some of great rarity, and many exceedingly well preserved, from the collection of the late Professor Adam Sedgwick, F.R.S.; purchased.

The first example of a Peripatus known to European collections from Tobago was *presented by the Hon. Walter Rothschild, F.R.S.*

ARACHNIDA.

The acquisitions number nine hundred and nineteen, but this does not include the second half of the Koch collection, which will be included in the Return for 1915. The following are the more important additions:—

Miscellaneous.

Two hundred and sixty-one Arachnida, including the types of a new variety of Tick (*Hæmaphysalis hoodi*, var., *orientalis*); *presented by the Imperial Bureau of Entomology.*

ARACHNIDA—*continued.*

One hundred and twelve parasitic Acari, including the types of a new species of Tick (*Hæmaphysalis novæguineæ*); *presented by the Hon. N. Charles Rothschild.*

Sixty parasitic Acari; purchased.

Africa.

Seventy-eight Arachnida from the Anglo-Egyptian Sudan; *presented by Abel Chapman, Esq.*

Fifty Acari parasitic on the species of Rodents frequenting houses in Egypt, including the types of a new species (*Dermanyssus sanguineus*); *presented by the Lister Institute of Preventive Medicine.*

Thirty-three Arachnida from Southern Rhodesia; *presented by Mrs. E. Spencer Jones.*

Two co-types of a new variety of a Scorpion (*Opisthophthalmus latimanus*, var., *keilandsi*) from Cape Colony; *presented by John Hewitt, Esq.*

Australasia.

Twenty-five parasitic Acari from South Dutch New Guinea, including the types of two new species; *presented by the Subscribers to the Wollaston Expedition to Dutch New Guinea.*

Twenty-two Scorpions from Queensland; purchased.

Three specimens of the poisonous spider known as the "Katipo" (*Lathrodectus katipo*) from the West Coast of New Zealand; *presented by J. C. Steiner, Esq.*

A specimen of the "flying spider" of Australia (*Saitis volans*); *presented by W. J. Rainbow, Esq.*

CRUSTACEA.

The acquisitions during the year number five hundred and ninety-six, of which the following are the most important:—

From various Localities.

Two hundred and seventeen Amphipoda, Mysidacea, and Euphausiacea, from other than Antarctic localities, obtained by the "Discovery" Expedition.

Twenty-three deep-sea Crustacea taken from telegraph cables; *presented by Dr. F. H. Preston.*

Twenty-two co-types of Crustacea, described by the donor, from various localities; *presented by A. O. Walker, Esq.*

Europe.

A series of specimens illustrating the development of the Spiny Lobster, from Plymouth; purchased.

Two co-types of an Amphipod (*Stenothoe crassicornis*) from the Irish Sea; *presented by A. O. Walker, Esq.*

CRUSTACEA—*continued.*

Three specimens of *Bathynella natans*, a Crustacean of exceptional interest and rarity, from Switzerland; *presented by Herr P. A. Chappuis.*

Four specimens of a rare hermit-crab from Naples; received in exchange from the Munich Museum.

Ten Isopoda (*Sphæroma* sp.) from Gibraltar; *presented by the Rev. Father Murford.*

Asia.

Twenty-four Crustacea from Syria; *presented by Dr. N. Annandale.*

Thirteen specimens of Crustacea from Masqat; *presented by Major S. G. Knox, C.I.E.*

Thirty specimens of rare Mysidacea from India; *presented by the Indian Museum, Culcutta.*

The type of a species of terrestrial Isopod, from Allahabad; *presented by Dr. A. D. Imms.*

Three co-types of an Amphipod (*Talorchestia kempii*) from the Abor county, N.E. India; *presented by the Indian Museum, Calcutta.*

Africa and Indian Ocean.

Twenty-three freshwater Entomostraca from Khartoum; *presented by Dr. A. J. Chalmers.*

Two specimens of the Coco-nut Crab, from Chumbi Island, Zanzibar; *presented by F. G. Aflalo, Esq.*

Syntypes of two new species of parasitic Copepoda from Lake Tanganyika; *presented by the Tanganyika Exploration Committee.*

Fifteen specimens of a Branchiopod, *Lynceus wahlbergii*, from Nyasaland; *presented by the Imperial Bureau of Entomology.*

Ten specimens of Amphipod (*Gammarus* sp.) from Cape Town; *presented by the Rev. N. Abraham.*

Five specimens of a recently discovered Isopod of exceptional interest (*Phreatoicus capensis*) from Cape Town; *presented by K. H. Barnard, Esq.*

A collection of Crustacea (including the type of a new species) obtained by trawling off Lagos, West Africa; *presented by J. Cadman, Esq.*

Thirty specimens of freshwater Crustacea from Madagascar, *presented by the Transvaal Museum, Pretoria.*

A co-type of *Sicyonella maldivensis* from the Indian Ocean; *presented by the University Museum of Zoology, Cambridge.*

America.

Eight specimens of hermit-crabs from Jamaica; *presented by Colonel L. Worthington-Wilmer.*

CRUSTACEA—*continued.*

The carapace of a crab (*Pericera spinosissima*) from Brazil; *presented by J. Lee, Esq.*

Five freshwater Decapoda from Brazil; *presented by Professor J. P. Hill, F.R.S.*

One specimen of an Isopod (*Serolis paradoxa*) from the Straits of Magellan, received in exchange from Professor F. S. Monticelli.

Australasia and Pacific Ocean.

A small collection of River-crabs from Dutch New Guinea, including holotypes of two new species; *presented by the Subscribers to the Wollaston Expedition to Dutch New Guinea.*

A collection of "Galls" formed on coral by a crab, *Hapalocarcinus marsupialis*, from Torres Straits; *presented by F. A. Potts, Esq.*

Six specimens of a Branchiopod (*Lepidurus viridis*) from Western Australia; *presented by the Proprietors of the Illustrated London News.*

A crab (*Ozius truncatus*), from New Zealand; *presented by Professor C. Chilton.*

Six Crustacea from Rarotonga, Cook Island; *presented by C. Stuart Betton, Esq.*

PYCNOGONIDA.

Six specimens, being co-types of two recently described species of exceptional interest, have been *presented by Prof. E. L. Bouvier, Paris.*

ECHINODERMA.

One hundred and fifty-two specimens, being the last consignment, were registered from the Norman Collection.

The total of the "Terra Nova" Collection is not yet complete, but three hundred and fifty specimens have already been determined; and a very fine set has been put aside for exchange.

One hundred and five specimens, many of particular interest, such as *Hemiaster expergitus, Aerosoma hystrix*, types of *Ophiacantha hibernica* and of *O. densa*, and often from great depths off the W. Coast of Ireland, were *presented by the Department of Agriculture and Technical Instruction (Fisheries Branch), Dublin.*

Twenty-five Echinoderms from South Georgia, including *Cycethra verrucosa* and *Ophionotus hexactis*, were obtained by the Expedition led by the late Major G. E. H. Barrett-Hamilton, and were *presented by the British Association and the Zoological Society of London.*

ECHINODERMA—*continued.*

Very special interest attaches to the acquisition of two specimens of the exceedingly rare and curious Holothurian, *Rhopalodina lageniformis,* from Lagos, *presented by J. Cadman, Esq.;* the type was described by Dr. Gray in 1853, and since that year no example has been offered for the collection.

WORMS.

Seventy-two Polychæta from the West Coast of Ireland were *presented by the Department of Agriculture and Technical Instruction (Fisheries Branch), Dublin;* of these *Streptosyllis bidentata* (a co-type), *Prægeria remota* (co-type), *Nerinides tridentata* (co-type) may be mentioned.

Rhinodrilus pebasiensis is a type described by Dr. Cognetti de Martiis.

Two hundred and four Gephyrea have been registered from the Norman collection; among them is a good series of *Phascolosoma tenuicinctum,* and of *Thalassema neptuni.* The registration and incorporation of the Norman collection of Worms is now completed.

Two sets of Rotifers, respectively of 18 and 14 slides, were purchased from Mr. Rousselet, and the collection of these animals is now probably superior to that in any other Museum.

The most important addition to the helminthological series during the year was the considerable collection of Parasitic Worms made by the British Antarctic ("Terra Nova") Expedition. Of these, five hundred and sixty-one specimens have been registered. The additions from other sources number eight hundred and seventy-eight, of which the following deserve special mention:—

Europe.

Various consignments of Nematode and Cestode parasites of poultry and game, from the British Isles; *presented by H. Hammond Smith, Esq., M.D.*

Twenty-five microscopic preparations of free-living Nematodes from Ireland, including many co-types of new species; *presented by the Department of Agriculture and Technical Instruction (Fisheries Branch), Dublin.*

Africa.

Thirty parasitic worms from East African Mammals; *presented by the Hon. N. C. Rothschild.*

One hundred and sixty parasitic worms from Nyasaland; *presented by the Imperial Bureau of Entomology.*

Eighteen parasitic worms from Sierra Leone (this number does not include the types of a new genus of parasitic Oligochaeta (*Aspidodrilus*) received at the same time); *presented by the Imperial Bureau of Entomology.*

WORMS—*continued.*

One hundred and sixty-nine parasitic worms from Accra, Gold Coast Colony ; *presented by C. M. G. Hoyte, Esq.*

America.

One hundred parasitic worms of domesticated animals, from the West Indies ; *presented by the Imperial Bureau of Entomology.*

BRACHIOPODA.

A specimen of *Lingula* from Manila Bay, *presented by C. S. Betton, Esq.,* was the only addition during the year.

POLYZOA.

The most interesting acquisitions were eight specimens of Fresh-water Polyzoa, from the Volga Basin ; *presented by Dr. Arvid Behning.*

ANTHOZOA.

In this group also the outlying members of the Norman collection have been registered and incorporated ; mention may be made of a good series of *Epizoanthus incrustatus,* of *Sphenotrochus macandrevianus,* and of *Pennatula phosphorea.*

A remarkable specimen of *Antipathes,* reported to come from the Faeroe Channel, was *presented by R. W. Thomson, Esq.*

A few well preserved specimens of Corals from Suez were purchased from Mrs. Bannwarth.

A specimen of *Umbellula* from 600–700 fathoms in the Indian Ocean was *presented by F. H. Preston, Esq.*

HYDROZOA.

Sixty-four specimens of Hydroida from the Pacific Coast of Canada ; received in exchange from Dr. McLean Fraser, British Columbia.

Four specimens of *Polypodium hydriforme* Ussow, in the free-living condition, from Astrachan ; *presented by Dr. Arvid Behning, Director of the Biological Station, Saratow, Russia*

PORIFERA.

Among the acquisitions are :—

Thirty-six Fresh-water Sponges, including many schizotypes and co-types ; received in exchange from the Indian Museum, Calcutta.

Eight Fresh-water Sponges from the Volga-basin ; *presented by Dr. Arvid Behning.*

PROTOZOA.

Fifty-eight well mounted slides of Foraminifera were purchased.

Summary of the Acquisitions in the Department of Zoology during 1914.

	Donations.	Purchases.	Exchanges.	Totals.
Mammalia — General Collection	2,225	196	4	2,425
Mammalia — Osteological Collection :—				
Mammalia — Anthropology	2	—	—	2
Mammalia — Cetacea	16	—	—	16
Mammalia — Other Mammals	15	—	—	15
Aves — Skins	3,214	3,985	158	7,357
Aves — Eggs	74	84	—	158
Aves — Nests	13	20	—	33
Aves — Skeletons	12	2	—	14
Domesticated Animals	4	—	—	4
Reptilia	491	135	7	633
Batrachia	239	48	5	292
Pisces	908	90	6	1,004
Tunicata	10	—	150	160
Hemichordata and Phoronidea	—	—	—	—
Mollusca	2,754	967	—	3,721
Myriopoda	41	11	—	52
Prototracheata	2	125	—	127
Arachnida	789	121	9	919
Crustacea	563	28	5	596
Pycnogonida	6	—	—	6
Echinoderma	134	147	8	289
Worms :—				
Chaetopoda, &c.	117	242	—	359
Parasitic Worms, &c. :—				
"Terra Nova" collection	561	—	—	1,439
Other sources	878	—	—	
Brachiopoda	1	—	—	1
Polyzoa	22	—	—	22
Anthozoa	6	171	—	177
Hydrozoa	9	—	64	73
Porifera	20	2	36	58
Protozoa	7	63	—	70
Totals	13,133	6,437	452	20,022

The following Donors presented specimens to the Department of Zoology during the year 1914 :—

Abadie, Major-General H. R., C.B.
Abraham, Rev. N.
Aders, Dr. W. M.
Aflalo, F. G.
Agriculture and Technical Instruction for Ireland, Department of.
Alcock, Col. A., F.R.S.
Allen, A. L.
Anderson, Col., J. H. Abbot.
Annandale, Dr. N.
Arnold, J. P.
Austen, Capt. E. E.
Aylmer, G.
Bailey, Capt. F. M.
Bannerman, D. A.
Barnard, K. H.
Barrett-Hamilton, the late Major G. E. H.
Barton, C. S.
Bate, Miss D. M. A.
Bathie, P. de la
Baxendale, F. R. S.
Baylis, C. E.
Bedford, Her Grace the Duchess of.
Bedriaga, Dr. J. de

Behning, Dr A.
Bell, A.
Beste, F. V.
Betton, C. S.
Blackburne-Maze, C. J.
Blaine, Gilbert
Blane, Col. C. F.
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VI.—*Economic Zoology.*

I. Mammalia.

The results obtained by the late Major G. E. H. Barrett-Hamilton during the Expedition to South Georgia in 1913–1914 have been worked out by Mr. Martin A. C. Hinton. A Report on the subject is being prepared for the Colonial Office.

Arrangements have been made, with the assistance of the Norwegian Fishery Department, for receiving information with regard to the species of Whales and the number of individuals captured off South Georgia, the South Shetlands, and other Southern localities. A partial report on the activities of four of the Companies operating in those waters has already been received.

II. Aves.

The question of the protection of Birds in various British Colonies and Protectorates has received much attention at the Colonial Office during the year, and many inquiries on the subject have been submitted to the Department.

III. Pisces.

Inquiries have been answered, and specimens determined, for the Government Biologist, Cape Town, the Fisheries Assistant of the Marine Biological Laboratory, Plymouth, the Imperial Institute, &c.

Investigations into the life-history of the Herring, carried on by the Board of Agriculture and Fisheries, have been assisted, particularly by selecting from the fishes in the collection, and handing over to the officers engaged in this research a series of scales illustrating the range of structure in the Clupeoid group.

The Salmonidæ are of such great economic value that a paper on their systematic arrangement may be mentioned here ; also the acquisition of a series of Trout from the Black Sea, a study of their scales showing that they grow as fast as the Salmon on our own coasts.

The Western Fisheries, Ltd., applied for advice before sending a trawler to Lagos, and were told that the first step towards estimating the economic possibilities of this region was to make a collection and have it accurately determined ; the collection, which was accordingly made by Mr. Cadman, has been presented to the Museum, and a report has been written on it.

IV. Mollusca.

Several specimens of economic importance have been determined during the year, of which the following are the most noteworthy :—a Helicid agricultural pest (*Helix carthusiana*) from Egypt; a slug (*Veronicella vittata*) devastating rubber plantations in Jamaica ; a freshwater gastropod (*Katayama nosophora*, n. gen. n. sp.) suspected in connection with the transmission of Katayama disease in Japan. (A paper has been prepared on this subject.) In addition, advice and assistance have been rendered on the question of the use of Mollusca as Trout-food and of West African shell-fisheries.

V. Myriopoda.

A centipede (*Geophilus electricus*) found in the human intestine has been examined.

VI. Arachnida.

Inquiries on the following subjects have been dealt with :—

1. A Gamasid mite (*Leiognathus bacoti*), normally parasitic on rats, biting human beings in shops at Sydney, on the wharves at Fremantle, and also at Perth, Australia.

2. The furniture mite (*Glycyphagus domesticus*).

3. A mite (*Pterolichus struthionis*), occurring on Ostriches imported into California.

4. The distribution of certain Acari, injurious to vegetation, introduced into this country (or likely to be introduced), with imported plants.

5. The possibility of the transmission of anthrax by specimens of *Hyalomma ægyptium* found on a camel which died from that disease at Aden.

VII. Crustacea.

Information has been supplied to the Board of Agriculture and Fisheries regarding the species of Lobsters found at the Cape of Good Hope.

A species of freshwater Crustacean believed to be concerned in the transmission of disease has been identified, and infor-

mation regarding it has been supplied to the Wellcome Tropical Research Laboratories, Khartoum.

A collection of Crustacea obtained by trawling off Lagos, West Africa, has been determined for the company carrying on the fishery, and further information has been supplied concerning certain of the edible species.

VIII. Parasitic Worms.

Parasitic worms and other organisms affecting domestic or other useful animals and birds have been determined for the following:—The Sanitary Department, Accra, Gold Coast Colony; the Imperial Bureau of Entomology (in answer to clients in Nyasaland and in the West Indies); "The Field" and "Country Life" newspapers.

Queries from various private individuals respecting parasitic or suspected parasitic worms have also been answered, including one serious case of disease in domestic poultry, which was thought to be due to intestinal worms, but proved otherwise.

VII.—*Students and Visitors.*

The number of visits paid to the Zoological Department during the year 1914 by Students and other persons requiring assistance or information amounted to 9,235. This number includes the visits paid by Students holding tickets entitling them to do special work in the Exhibition Galleries.

In the 10 previous years the numbers were as follows. From 1904 to 1912 inclusive the present Department of Entomology was included in the Department of Zoology:—

9,982	in the year	1913.
12,564	,,	1912.
12,175	,,	1911.
12,443	,,	1910.
11,461	,,	1909.
10,220	,,	1908.
11,043	,,	1907.
10,813	,,	1906.
11,811	,,	1905.
11,824	,,	1904.

Sidney F. Harmer.

Department of Entomology.

I.—*Arrangement and Conservation.*

Exhibition Series.—Some interesting additions, including a piece of worm-eaten oak from the roof of Westminster Hall, have been added to the series of economic specimens exhibited in the North Hall. Few changes have been made in the exhibition cases placed in the Insect Gallery, but a considerable amount of work has been done in the preparation of specimens for exhibition there, which will illustrate the various kinds of "flies" that serve as food for trout and grayling, and are of interest to anglers. Mr. Martin E. Mosely, who had presented a collection of these specimens, has voluntarily given much assistance in mounting and preparing them for exhibition.

Study Series.—The systematic arrangement of the collections in cabinet drawers, and the preparation and incorporation of specimens from the vast number of accessions have continued to make satisfactory progress, although there has been a falling off in this respect during the last four or five months of the year owing to the absence on military service of several members of the staff of the Department. The loss experienced through this cause has, however, to some extent been compensated for by the generosity of Mr. F. D. Godman, who has permitted Mr. G. C. Champion and Mr. A. Cant to devote most of their time to the work of the Department, and to render valuable assistance in various ways.

In the **Coleoptera,** the arrangement of the Rhynchophora of the group Cleonini has been completed in accordance with Faust's Monograph of that group; a further large series of Australian Rhynchophora determined by Mr. Lea have been incorporated in their places in the collection, and another set sent to him for identification, and the Anthribidæ from the Fry collection, worked out by Dr. K. Jordan, have also been incorporated. Smaller series of the genera *Apion*, *Sphenoptera*, and *Bembidium* named by specialists have been returned and re-incorporated; and the unnamed specimens belonging to various other genera have been got together and sent to different specialists for determination. Most of the types of Lamellicornia received in the Blackburn collection of Australian Coleoptera, and all the accessions from Australia in the family Cistelidæ have been incorporated. The Heteromera of the sub-families Bolitophaginæ and Diaperinæ (in part) have been re-arranged, and a good deal of time has been given to a revision of the genus *Gonocephalum* and of the family Pyrochroidæ. Large series of unnamed African Longicornia, mostly from the collections presented by the Imperial Bureau of Entomology, have been named and returned by Prof. Chr. Aurivillius, of Stockholm, who has found amongst them many new species, which he has described. Mr. G. C. Champion has revised and re-arranged certain groups of the Malacodermata,

and has described several new species from Mexico and Central America. The Coleoptera collected by Dr. Wollaston and others on the expeditions to Dutch New Guinea have nearly all been worked out and the new species described.

In the **Hymenoptera,** the re-arrangement of the Apidæ has made further considerable progress, the sub-families Anthophorinæ, Euglossinæ, and Panurginæ having been completed during the year. A large part of the Cameron collection of Aculeate Hymenoptera has been incorporated; and certain genera of Vespidæ have been revised. The large genera *Synagris* and *Alastor* of this family have been worked out by Dr. Maidl (of Vienna) and Dr. R. C. L. Perkins respectively. Other groups have been sent to specialists for study, the more important comprising Apidæ despatched to Prof. T. D. A. Cockerell and Prof. Myron Swenk.

Mr. R. E. Turner having returned from Australia, where he succeeded in making an extensive collection of insects belonging to this order, has continued voluntarily to devote a great part of his time to working out the collections.

Progress has also been made in the arrangement of the Parastic Hymenoptera (Ichneumonidæ) the sub-family Pimplinæ having been completed. The Chalcididæ have been partially revised by Mr. James Waterston of the Imperial Bureau of Entomology.

In the **Orthoptera,** several small accessions have been incorporated, and all the unworked accessions belonging to the family Mantidæ have been sent on loan to Dr. Ermano Giglio-Tos, who has undertaken to work them out, and to describe the new forms.

In the **Neuroptera,** unnamed Raphidiidæ have been determined and returned by Señor R. P. Longinos Navás, S.J., and have been incorporated in the collection. A short paper has been prepared and published, giving an account of some morphological features of the head in certain genera of Phryganeidæ.

The collection of **Anoplura** and **Mallophaga** has continued to grow rapidly, large numbers of specimens having again been presented by the Hon. N. C. Rothschild, to whom the Department is also greatly indebted for the continuance of provision for the services of a preparator during the greater part of the year. A good deal of work has been done on collections received in instalments from the Zoological Society; and the specimens belonging to these groups of parastic insects, brought back by the "Terra Nova" (Antarctic) Expedition, the South Georgia Whaling Mission, and the expeditions to Dutch New Guinea, have as far as possible been determined and described.

In the **Rhynchota,** further progress has been made in incorporating the Distant collection. A number of species collected by Drs. E. Sarasin and J. Roux in New Caledonia and the neighbouring islands, the specimens collected by the

Wollaston Expedition to Dutch New Guinea, and a number of interesting species obtained by Mr. J. C. Moulton on an expedition to Mount Merinjak in Borneo have been the chief additions to the Rhynchota received during the year. These collections have all been worked out and the specimens incorporated.

In the **Lepidoptera,** the labelling and re-arrangement of the Acræinæ have been completed, and the incorporation of accessions in other families has made considerable progress, the Papilionidæ of the Neave collection from British East Africa, the Verity collection, the Heliconinæ and Ithomiinæ (in part) of the Wickham and Moffat collections, and the Erycinidæ of the Godman-Salvin, Hewitson, and Crowley collections having been incorporated as far as cabinet space would allow.

Volume I. of the Supplement to the Catalogue of Moths was published during the year. The re-arrangement of the moths of the family Amatidæ, and of the sub-families Nolinæ and Lithosiinæ has been completed, as well as the arrangement of the Pyralidæ of the sub-family Endotrichinæ. In the Tineina, the revision of the Tineidæ, Acrolophidæ, and Nemophoridæ has been continued, together with the Pterophorina, Orneodina, and supplementary work on the Pyralidina (Pyraustidæ), completing the "Biologia Centrali-Americana."

In the **Diptera,** the collection of Asilidæ made by Dr. Ernst Hartert in the Western Sahara has been worked out and incorporated, and a number of small collections from Queensland, Natal, Sierra Leone, Algeria, and the Belgian Congo have been determined. The British Empidæ, Bibionidæ, Simulidæ, and a large part of the Chironomidæ have been re-arranged and expanded, all accessions having been incorporated. Proofs of a volume on the Syrphidæ of the Ethiopian Region by Prof. Mario Bezzi, based on material in the Museum collection have been corrected for the press, and the preparation of drawings to illustrate the work has been supervised.

Imperial Bureau of Entomology.

The Entomological Department has continued to benefit greatly by the work of the Imperial Bureau of Entomology. As one result of this work, about 60,000 specimens of insects have been added to the Museum collection in the course of the year. Many of these specimens were contained in collections which had been completely named up and the new species described before being presented to the Department, and include a fair proportion of valuable types. It is in every way desirable that nothing should interfere with the close co-operation maintained between the Department and the Imperial Bureau, which is of such great advantage to both, and it is to be hoped that something will be done before long to remove the difficulties experienced owing to the lack of sufficient accommodation for the collections and for those who are engaged at work upon them.

II.—*Duplicates and Exchanges.*

(a) *Duplicates.*

Duplicates have been presented to the following institutions:—

The Veterinary Institute and School, Melbourne University; and the Royal College of Science, London. Duplicates have also been presented to the following gentlemen who have rendered service by naming specimens:—Professor Chr. Aurivillius, Mr. R. S. Bagnall, Dr. Malcolm Cameron, Professor T. D. A. Cockerell, M. L. Garreta, Mr. F. H. Gravely, M. Antoine Grouvelle, Captn. C. Kerremans, Mr. Arthur Lea, Dr. F. Maidl, Señor R. P. Longinos Navás, S.J., Professor F. Netolitzky, Dr. Esben Petersen, Lieut.-Col. F. Winn Sampson, Dr. Franz Spaeth.

(b) *Exchanges.*

Exchanges have been made with the following museums and individuals:—

Hope Department, University Museum, Oxford; and with M. André Avinoff, Professor C. F. Baker, Mr. H. S. Barber, M. Ant. Boucomont, Mr. A. N. Caudell, Professor T. D. A. Cockerell, Mr. W. J. Kaye, Captn. C. Kerremans, Mr. F. Knab, Mr. F. W. Nunenmacher, M. René Oberthur, Dr. R. C. L. Perkins, Dr. Roger Verity, and Commander J. J. Walker, R.N.

III.—*Departmental Library.*

The Library has continued to be worked in conjunction with that of the Zoological Department, and particulars in reference to it will be found included under the corresponding head, in the return made by the Keeper of Zoology.

IV.—*Publications.*

In addition to the official publications issued by the Trustees (*see* p. 114), the following papers and reports have been prepared in connection with different branches of the collection, and have been published for the most part in scientific journals:—

By Gilbert J. Arrow.

"Some further notes on Lamellicorn Beetles of the subfamily Dynastinæ." Ann. Mag. Nat. Hist. (8), xiv., pp. 257–276.

"On the Ceylonese Species of Ruteline Coleoptera belonging to the Genus Adoretus." *Ib.*, xiii., pp. 587–594.

"On the Burmese Species of Ruteline Coleoptera belonging to the Genus Adoretus." *Ib.*, xiii., pp. 594–601.

By K. G. Blair.

"A Revision of the Family Pyrochroidæ (Coleoptera)." Ann. Mag. Nat. Hist. (8), xiii., p. 310.

"On the Fabrician Types of the Tenebrionidæ (Coleoptera) in the Banks Collection." *Ib.*, p. 482.

"Notes on Coleoptera of the Genus *Azarelius*, Fairm. (Tenebrionidæ) with Descriptions of New Species." *Ib.* xiv., p. 315.

"Two new Species of Pyrochroidæ (Coleoptera) from Borneo." *Ib.*, p. 317.

By C. J. Gahan.

"A new Genus of Coleoptera of the Family Psephenidæ." The Entomologist, 1914, p. 188.

By Professor Chr. Aurivillius.

"Neue oder wenig bekannte Coleoptera Longicornia. 14." Arkiv för Zoologi, Band 8, No. 29.

By George Charles Champion.

"Revision of the Mexican and Central American Malachiidæ and Melyridæ, with descriptions of new species." Trans. Ent. Soc. Lond , 1914, p. 13.

"Revision of the Mexican and Central American Chauliognathinæ (Fam. Telephoridæ) based on the genital armature of the males." *Ib.*, p. 128.

By Sir G. F. Hampson, Bart.

"Two New Species of Wood-boring Moths from W. Africa." Bull. Ent. Res., v., p. 245.

"Descriptions of New Genera and Species of Drepanidæ and Thyrididæ." Ann. Mag. Nat. Hist. (8), xiv., p. 103.

"A New Species of Noctuidæ." *Ib.*, xiii., p. 275.

"Descriptions of New Genera and Species of Noctuidæ." *Ib.*, p. 146 and p. 197.

By Lord Walsingham.

The publication of the following series of descriptions has been continued:—*

"Biologia Centrali-Americana. Zoologia. Insecta. Lepidoptera. Heterocera (continued). Tineina." Vol. iv., pp. 225–392, pls. 7–9.

* "Prepared for publication by Mr. Durrant, by permission of the Trustees."

By Geoffrey Meade-Waldo.

"Notes on the Apidæ (Hymenoptera) in the Collection of the British Museum, with descriptions of new Species. Part III. Ann. Mag. Nat. Hist. (8), xiii., pp. 45–58. *Ib.*, Part IV., pp. 339–405. *Ib.*, Part V., pp. 450-463.

By Geoffrey Meade-Waldo and Claude Morley, F.Z.S.

"Notes on Synonymy of Hymenoptera in the Collection of the British Museum." Ann. Mag. Nat. Hist. (8), xiv., pp. 402–410.

By R. E. Turner.

"Notes on Fossorial Hymenoptera. xii. On some new Oriental Species." Ann. Mag. Nat. Hist. (8), xiv., pp. 255–257.

"Notes on Fossorial Hymenoptera. xiii. A Revision of the *Sericophorinæ*." *Ib.*, pp. 337-359.

"Notes on Fossorial Hymenoptera. xiv. On the Mutillidæ of Western Australia and Tasmania." *Ib.*, pp. 429–450.

By. Prof. T. D. A. Cockerell.

"Descriptions and Records of Bees." Part LX. Ann. Mag. Nat. Hist. (8), xiv. pp. 1–13. Part LXI. *Ib.*, pp. 39-49. Part LXII. *Ib.*, pp. 50–57. Part LXIII. *Ib.*, pp. 361–369.

"Australian Bees of the genus *Euryglossa*." Entomologist, 1914, pp. 213–215.

By. Dr. A. Mocsáry.

"Chrysididæ plerumque exoticæ novæ." Ann. Mus. Nat. Hungar., XII.

By E. E. Austen.

"On Diptera collected in the Western Sahara by Dr. Ernst Hartert, with descriptions of new Species. Part II." Novitates Zoologicæ, xxi., p. 265.

"A Dipterous Parasite of *Glossina morsitans*." Bull. Ent. Res. V., Part 1, p. 91.

"New African Tabanidæ, Part IV." Bull. Ent. Res., iv., p. 283.

"On Certain Recently described Australian Species of *Tabanus*." Ann. Mag. Nat. Hist. (8), xiii., p. 263.

By F. W. Edwards.

"New Synonymy in Oriental Culicidæ." Bull. Ent. Res., iv., Part 3, p. 221.

"On the Oriental Culicid Genus *Leicesteria,* Theobald." *Ib.,* Vol. IV., Part 4, p. 255.

"New Species of Culicidæ in the British Museum, with Notes on the Genitalia of some African *Culex.*" *Ib.,* Vol. V., Part I., p. 63.

"New Culicidæ from Borneo and Hong Kong." *Ib.,* Vol. V., Part 2, p. 125.

"A Remarkable Case of Neurational Teratology in Diptera." Ent. Mo. Mag. Vol. L., p. 59 (March).

"Insectes Dipteres: Nematocera: Sciaridæ, Mycetophildæ, Bibionidæ, Simuliidæ, Psychodidæ et Culicidæ." In "Voyage de Ch. Alluaud et R. Jeannel en Afrique Orientale (1911–1912). Résultats Scientifiques." May 1914.

"A Revision of the Tipulid Genus *Styringomyia,* Lw." Trans. Ent. Soc., Pt. 1, p. 206.

By Bruce F. Cummings.

"Scent Organs in Trichoptera." Proc. Zool. Soc., 1914, p. 459.

"Note on the Characters of the Head and Mouth parts in the Genera *Plectrotarsus* and *Æthaloptera* (Trichoptera)." Ann. Mag. Nat. Hist. (8), xiv., p. 22.

"Descriptions of Five New Species of Anoplura and Mallophaga." Bull. Ent. Res. V., Pt. 2, p. 155.

By W. L. Distant.

"Rhynchotal Notes." Ann. Mag. Nat. Hist. (8), xiii., p. 176.

"Some Additions to the Genera and Species in the Homopterous Family Fulgoridæ." *Ib.,* p. 409.

"Some undescribed Cicadidæ." *Ib.,* xiv., p. 61.

"On a few undescribed Cicadidæ from California." *Ib.,* p. 165.

Some new Rhynchota from Mt. Merinjak, Borneo." *Ib.,* p. 333.

"Rhynchotal Notes." *Ib.,* p. 323.

"Description of a new Cicada from West Africa." Entomologist, March, Vol. LVII., p. 87.

"Descriptions of two new species of Cicadidæ from the Belgian Congo." Rev. Zool. Africaine, 1914.

"Rhynchota from New Caledonia and the surrounding Islands." Nova Caledonia Zoology, Wiesbaden, 1914.

"Report on the Rhynchota Collected by the Wollaston Expedition in Dutch New Guinea." Trans. Zool. Soc., 1914, Vol. XX., p. 335.

By R. P. Longinos Navás, S.J.

"Les Chrysopides (Ins. Nevr.) du Musée de Londres." Ann. Soc. Sci. Bruxelles, xxxvii., pp. 292–330, and xxxviii., pp. 73–114.

By Herbert Campion.

"Three new Species of *Ceriagrion* from West Africa (Order Odonata)." Ann. Mag. Nat. Hist. (8), xiv., p. 277.

V.—*Acquisitions.*

The number of specimens added to the Insect collection during the year is 123,954, made up as shown in the following table:—

——	Donations.	Exchanges.	Purchases.	Totals.
Coleoptera - - -	21,004	246	3,198	24,448
Lepidoptera - - -	37,311	57	1,332	38,700
Hymenoptera - - -	14,019	112	10,019	24,150
Diptera - - - -	8,784	25	3	8,812
Rhynchota - - -	5,409	18	3,004	8,431
Orthoptera - - -	1,209	—	2	1,211
Neuroptera - - -	221	—	2	223
Anoplura - - - -	5,519	—	—	5,519
Mallophaga - - -	233	—	—	223
Siphonaptera - - -	10,007	—	—	10,007
Other Orders - - -	867	—	—	867
Nests, Eggs, Pupæ, Larvæ, &c.	1,353	—	—	1,353
Totals - - -	105,936	458	17,560	123,954

The most important of these accessions are the following:—

From various localities:—

Eight thousand three hundred and ninety-seven Rhopalocera, chiefly American, including 362 types; *presented by F. Du Cane Godman, Esq., D.C.L., F.R.S.*

One thousand three hundred and seventy-five Tabanidæ, being the whole of the collection of exotic Tabanidæ formed by J. Bigot, including many of Bigot's types and specimens named by Macquart; *presented by J. C. Collin, Esq.*

Ten thousand Siphonaptera (Waterston Collection); *presented by an anonymous donor through G. A. K. Marshall, Esq.*

Three hundred and seventy-four specimens of various orders, mostly from N. Africa; *presented by the Hon. L. Walter Rothschild.*

Two thousand four hundred and eleven specimens of various orders; *presented by the Hon. N. C. Rothschild.*

Six hundred specimens of various orders; *presented by C. Stewart Betton, Esq.*

The 4th instalment of the Distant Collection, containing 3,000 Rhynchota and 2,000 Coleoptera.

Ten thousand Hymenoptera (Peter Cameron Collection), including 1,500 type specimens.

Europe.

Seven hundred and fifty-seven British Diptera; *presented by Lieut.-Col. J. W. Yerbury.*

Four hundred and seventy-three British Diptera; *presented by F. W. Edwards, Esq.*

Asia.

Six hundred and six specimens of various orders from Ceylon; *presented by E. E. Green, Esq.*

Three hundred and ninety-nine specimens, including 262 Diptera and 137 Hymenoptera from Kashmir; *presented by Lieut.-Col. F. Wyville Thomson.*

Three hundred and twenty specimens from Dutch New Guinea; *presented by the Subscribers to Dr. Wollaston's 2nd Expedition.*

Three hundred and twenty-nine specimens of all orders from Borneo; *presented by J. C. Moulton, Esq.*

Five hundred and four Hymenoptera from Penang and Sarawak; *presented by G. E. Bryant, Esq.*

Africa.

Fifty thousand nine hundred and twelve specimens of all orders from various parts of Africa; *presented by the Imperial Bureau of Entomology.*

Two thousand four hundred and fifty-nine Coleoptera from the Seychelles, collected by the Percy Sladen Trust Expedition; *presented by Prof. J. Stanley Gardiner, F.R.S.*

Two hundred and eighty-eight Diptera from S. Africa; *presented by Miss J. Brincher.*

Three hundred and seventy-eight specimens of various orders from Natal; *presented by R. C. Wroughton, Esq.*

Three hundred and three Coleoptera from S. Africa; *presented by G. A. K. Marshall, Esq.*

Australia.

Seven thousand four hundred and twenty Insects of all orders from S.W. Australia and N. Queensland; *presented by R. E. Turner, Esq.*

The second and final portion of the Blackburn collection of Australian Coleoptera, containing 961 types and 29 co-types.

America.

Three hundred and sixty-one specimens of various orders from Mexico; *presented by B. Preston Clark, Esq.*

Three hundred and fifty-two Insects belonging to different orders from Colombia; *presented by Dr. H. G. F. Spurrell.*

The following is a list of donors who have presented specimens to the Department of Entomology in 1914:—

Adie, Lieut.-Col. J. R.
Aflalo, F. G.
Agricultural Research Institute, Pusa
Alcock, Col. A., F.R.S.
Ambrose, Capt. W. Gerald
Andrewes, H. E.
Andrewes, Dr. F. W.
Argyle, Capt. E. P.
Arias, Dr. J.
Armstrong, L. (the late)
Arnold, G.
Almore, E. A.

Backhouse, R. O.
Bacot, A.
Bagnall, A. W.
Bahr, Dr. Philip
Baker, C. F. S.
Balfour, Dr. A.
Barber, H. S.
Barnard, K. H.
Barnes, Dr. W.
Barrett, J. Platt
Barrow, Dr.
Baxter, Dr. E. J.
Baylis, H. A.
Beutenmuller, W.
Beste, F. V.
Betton, C. Stewart
Blair, K. G.
Bombay Natural History Society
Bourgoin, Mons. A.
Brincker, Miss J.
British Antarctic ("Terra Nova") Expedition
Broadway, W. E.
Bryan, J. M.
Bruce, Mrs. C. D.
Burr, Dr. Malcolm
Butler, E. A.
Buxton, P. A. J.

Campbell, Miss Joan
Carter & Co., Messrs. James
Chalmers, Guthrie & Co., Messrs.
Champion, G. C.
Chapman, Abel
Chapman, Dr. T. A.
Charbonnier, H. J.
Chetwynd, Guy
Chubb, C.
Chubb, E. C. C.
Clark, A. J.
Clark, B. Preston
Clark, E. L.
Claydon, B.
Cockerell, Prof. T. D. A
Coghlan, K. Hay
Comas, D. Jaime Nonell y
Collin, J. E.
Collins, Bernard E.
Cooke, A. T.

Dixon, F.
Dod, F. H. Wolley.
Dognin, Mons. Paul
Dollman, H.
Donisthorpe, H. St. J. K.
Dorking, F. W.
Ducke, A.

Ede, Miss F., L.S.A.
Edwards, F. W.
Ellis, E. V.

Faber, Eric
Farrant, R. G.
Fenton, M. A.
Ferguson, E. W.
Fountaine, Miss M. E.
Frisby, G. E.
Froggatt, W. W.
Fryer, J. C. F.

Gairdner, K. G.
Gardiner, Prof. J. Stanley
Gehlen, Dr.
Gibbs, A. E.
Gibson, E.
Godman, Dr. F. Du Cane
Godfrey, E. J.
Goot, P.v.d.
Gordon, B. W.
Gotch, D. H. (the late)
Gowdey, C. C.
Grant, W. R. Ogilvie
Green, E. E.

Grouvelle, M. Ant.
Grubb, W.

Hadden, Harvey
Hannyngton, F.
Harland, Mrs. A.
Harris, R. Hamlyn
Haviland, Miss Maud D.
Hingston, Capt. R. W. G.
Holman-Hunt, C. B.
Hornby, Dr. H. E.
Hudson, Miss Stella

Illingworth, J. F.
Imms, Dr. A. D.
Imperial Bureau of Entomology
Imperial Institute
India, Government of
Indian Museum, Calcutta

Jack, R. W.
Jackson, Dr. F. W.
James, Major S. P.
Jenkinson, F.
Jennings, F. B.
Joicey, J. J.
Jones, A. H.
Jones, J. Dukinfield
Jones, Mrs. Spencer

Kaye, W. J.
Keen, Rev. Canon J. H.
Kerremans, Capt. C. H.
Kew, Royal Botanic Gardens

Laidlaw, F. F.
Latter, O. H.
Lea, A. M.
Lewis, G.
Ley, Mons. Robert
Lister Institute of Preventive Medicine
Lloyd, T. H.
London School of Tropical Medicine
Lowe, Rev. F. E.
Luck, Dr.
Ludlow, Miss C. S.
Lutz, Dr. A.
Luvoni, A. P.
Lyle, S. T.
Lynes, Capt. H., R.N.

Mackwood, F. M
Marriott, Col.
Marshall, G. A. K.
Mathews, Rev. H.
Maude, Capt. E. W.
McCarrison, Major R.
McGahey, Dr. K.
Meade-Waldo, E. G. B.
Miller, Rev. E.
Moffat, R. U.
Montague, P. D.
Morice, Rev. F. D.
Morley, Claude
Mosely, M. E.
Moulton, J. C.
Munro, H. K.
Munro, J. W.
Muir, F.

Navás, R. P. Longinos
Neale, Dr. A. E.
Nicholls, Dr. H. A. A., C.M.G.
Nicholson, W. E.
Norris, Dr. S. K.
Nurse, Col. C. G.

Pallis, Mark A.
Pearson, Dr. J. S., W.A.M.S.
Peile, Major H. D.
Percy Sladen Trust Committee
Perez, Dr. G. V.
Peringuey, L.
Perkins, Dr. R. C. L.
Pungeler, Herr R.
Pomeroy, A. W. J.
Pool, C. J. C.
Poulton, Prof. E. B.
Prout, L. B.
Pryer, Mrs. W. B.

Queensland Museum, Director of

Riley, N. D.
Roper, Dr.
Rosenberg, W. F. H.
Rothschild, Hon. Walter
Rothschild, Hon. N. C.
Rutherford, A. (the late)
Ruthven, Dr. Jane B. H.
Ryley, Miss K. V.

Salvaza, R. Vitalis de
Sarawak Museum
Schaus, W.
Schwetz, Dr. J.
Scott, Hugh
Shepherd, Miss G. M.
Shiraki, Dr.
Sicard, Dr. A.
Sich, A.
Slocombe, Shirley
Sloan, Rev. A. D., M.A., B.Sc.
Soldanski, Dr.
South, R.
South Georgia Expedition
Spurrell, Dr. H. G. F.
Stainton, Dr. A. T.
Starey, E.
Staudinger and Bang Haas, Messrs.
Stevens, H.
Stevenson, A. C.
Stevenson, W.
Swale, Dr. Harold
Swinnerton, C. F. M.
Sworder, G. H.

Taylor, F. H.
Thomas, D.
Thomson, Lieut.-Col. F. Wyville
Turner, R. E.

Villeneuve, Dr. J.

Walker, Commander J. J.
Walsingham, Lord
Warren, E.
Waterston, Rev. J.
Watkins, H. J.
Watson, J. H.
White-Cooper, W. R.
Wickham, Preb. A. P.
Wileman, A. E.
Williams, C. B.
Wilmer, Col. Worthington
Winton, W. De
Wollaston's Second Expedition to Dutch New Guinea, Subscribers to
Wood, R. C.
Woollet, G. F. C.
Woosnam, R. B.
Wroughton, R. C.
Wyatt, L. B.

Yerbury, Lieut.-Col. J. W.
Youngs, Miss E. S.

VI.—*Economic Entomology.*

The work of the Department in Economic Entomology has been carried on with the assistance of Mr. C. A. Ealand, whose services as a specialist in that branch have again been engaged during the year. Considerable additions have been made to the card catalogue of the insect pests of the world, which now contains some thousands of references. In addition to the systematically arranged collection of injurious insects, which has made much progress, separate collections have been formed to show the chief insect pests of the more important food crops of the world. A considerable amount of material presented by the Imperial Bureau of Entomology, together with other accessions of economic interest received during the year, have been incorporated in the collection.

Work in connection with the Army Biscuit Inquiry, initiated by the War Office, has been continued and a further Report was made shortly before the outbreak of the war.

The meetings of the Departmental Committee of the Colonial Office on Sleeping Sickness were, by special leave of the Trustees, attended by Mr. E. E. Austen, Assistant in the Department.

Inquiries on matters of economic interest have continued to come in from various parts of the world. Among the

objects on which information or advice has been sought, and as far as possible given, the following may be mentioned :—

ORTHOPTERA.

(1) *Scapteriscus didactylus* damaging a cricket ground 10 miles from Buenos Ayres.
(2) Methods for dealing with locust plagues. A fairly complete report was drawn up giving the most approved methods for checking the ravages of locusts. (The British American Tobacco Co.)
(3) How to deal effectively with cockroaches and house crickets. Several inquiries.
(4) A list of the literature on cockroaches.

ANOPLURA.

(5) *Pediculus vestimenti.*

RHYNCHOTA.

(6) *Aleyrodes piperis* on *Piper* from Jamaica.
(7) *Pemphigus bursarius* on Lombardy Poplar.
(8) *Chaitophorus aceris* damaging a small sycamore in a London garden.
(9) *Diaspis persimilis* Ckll. imported into Kew Gardens from Teneriffe on *Sideroxylon.*
(10) *Phorodon humuli* and *Rhopalosiphum dianthi* found by a doctor in the urine of a child.

CORRODENTIA.

(11) The treatment of wood in the tropics against the ravages of white ants.
(12) Psocidæ, a question as to their importance from a public health point of view. (The Public Health Officer, Gibraltar.)
(13) The treatment of wood, cotton, wool, and silk used in the construction of telephone apparatus in the tropics to prevent the attack of termites. (The Western Electric Co.)

LEPIDOPTERA.

(14) Prevention and treatment of Clothes Moth (*Tineola biselliella* Hum).

(15) *Polychrosis botrana* injuring grape berries in Almeria, South of Spain.

(16) A Geometrid larva seriously damaging Azaleas in a London garden.

(17) Information was asked for regarding the silk of *Bombyx mori* and *Antheræa paphia.*

(18) *Hydrocampa nymphеata* found destroying the leaves of water lilies at Kew Gardens.

DIPTERA. *Chloropsica notata* swarming in thousands in the windows of a country house. (Editor, "Country Life.")

(19) Several inquiries were received for information regarding leather jackets (*Tipula oleracea*).

(20) Information regarding the life history of, and best methods for dealing with, the Flea (*Pulex irritans*) was several times asked for.

(21) *Contarinia pyrivora*, Riley, infesting pears in Kent.

(22) The larvæ of *Musca domestica* and *Drosophila funebris* found at Kew Gardens in a tank containing a strong solution of quassia and tobacco juice.

HYMENOPTERA.

(23) Carpenter Ants (*Camponotus laevigatus*, Smith). They were forwarded from Derbyshire and had been imported in Ash poles from America. "They came to light in hundreds on the poles being cut."

(24) *Sirex gigas* damaging wood which had been imported from East Prussia.

COLEOPTERA.

(25) *Meligethes seneus* attacking turnip flowers at Wood Green.

Dermestes vulpinus infesting Cattle intestines, imported from India.

(26) *Nacerdes melanura* L., eating wainscotting in the corridors of a large London firm.

(27) *Anthrenus museorum* infesting a house in Derbyshire.

(28) *Carpophilus hemipterus* proving an annoyance to a baker in a London district.

(29) *Lyctus brunneus* injuring Walnut panelling in two different houses.

(30) *Lyctus* sp. infesting American Ash.

(31) *Anobium paniceum* rapidly becoming a plague in a house in N. London.

(32) *Anobium domesticum* infesting the floor of a room. (The Editor of the "Cabinet Maker.")

(33) *Niptus hololeucus*, several inquiries as to how to eradicate the beetles.

(34) *Ernobius mollis* infesting forestry specimens.

(35) *Ptinus fur* appearing in considerable numbers in an old cottage in Staffordshire.

(36) *Lochmaea suturalis*, forwarded from Lancashire as damaging heather. (The Editor, "The Bazaar, Exchange and Mart.")

(37) *Otiorrhynchus picipes* damaging the bulbs of cyclamens.

(38) Information was asked for regarding the breeding of *Ladybirds* on a commercial scale for use against the apple aphis.

(39) *Ptinus tectus* breeding in dog biscuits at Liverpool.

THYSANURA.

(40) *Lepisma saccharina.*

VII.—*Students and Visitors.*

The number of visits paid to the Department during the year by students and other persons seeking information or assistance was 4,284.

C. J. Gahan.

Department of Geology.

I.—*Arrangement and Conservation.*

Mammalia (Galleries 1 and 2).—The human skulls and plaster casts in table-case 1 have been remounted and re-arranged to admit plaster casts of the Piltdown skull; and the whole of the Piltdown collection has been transferred to this case.

The exhibited Palæolithic flint implements have been re-arranged and re-labelled according to the French classification in table-case 1A and in a special upright case.

Pier-case 9, containing the early Perissodactyla, has been cleaned and re-arranged. All the smaller specimens have been mounted on tablets with newly printed labels.

Pier-case 16, containing Bovines, Antelopes, and Goats, has been cleaned and re-arranged to admit a newly mounted skeleton of *Myotragus balearicus*.

The remains of early Artiodactyla in the drawers of table-case 8 have been re-arranged and labelled.

A plaster cast of the skeleton of *Arsinoitherium zitteli*, from the Upper Eocene of Egypt, partly restored, has been mounted on a special stand in the middle of the gallery.

Pier-case 33, containing Proboscidea, has been cleaned and re-arranged to admit a newly mounted skull of *Elephas meridionalis* from the Forest Bed of Bacton, and other new specimens, all provided with printed labels.

A new selection of remains of Rodentia has been made for exhibition in table-case 16, and about half of them have already been mounted on tablets with printed labels. The labelling and arrangement of unexhibited specimens in the drawers of the same table-case have been completed.

A collection of remains of *Amblyrhiza* from a cave-breccia in Anguilla, West Indies, has been prepared for study and exhibition.

The Busk collection of Pleistocene and Pliocene Mammalia, and the Oswald collection of British East African Tertiary Mammalia, have been registered, labelled, and incorporated.

A revision of the unexhibited Mammalian remains in the basement store-rooms has been begun.

Number of specimens of Mammalia registered, 463.

Aves (Gallery 2).—A new cabinet of drawers has been placed under table-case 13A, and the unexhibited specimens belonging to that case have been re-arranged.

Number of specimens of Aves registered, 55.

Reptilia and Batrachia (Galleries 3, 4, 5, 11).—A newly mounted skeleton of *Ophthalmosaurus* has been temporarily placed in the large middle case at the S.E. end of Gallery 4.

A new specimen of *Ichthyosaurus* from the Upper Lias of Würtemberg, showing the skin and other soft parts, has been mounted for exhibition in wall-case 15. Other specimens have been rearranged to admit it.

Plaster casts of skulls of *Pariasaurus* and *Inostransevia*, from the Upper Permian of Russia, have been mounted on the top of wall-case 10.

New specimens of Chelonia from the London Clay have been mounted and placed in wall-case 18.

The large plaster casts of *Archegosaurus* in wall-case 19 have been framed.

Progress has been made with the preparation of Triassic Reptiles from South Africa and Cretaceous Reptiles from Kansas, U.S.A. A skeleton of *Tapinocephalus* from the Karroo Formation has been mounted on ironwork.

Number of specimens of Reptilia and Batrachia registered, 235.

Pisces (Gallery 6).—Wall-case 14A, containing Pachycormid fishes, has been completely refitted to admit new specimens which have been framed for exhibition.

The arrangement of the larger Tertiary fishes in wall-cases 17, 18 has been completed.

The Traquair collection of Carboniferous fishes has been registered, labelled, and incorporated.

Various fishes from the English Chalk and other recent acquisitions have been prepared for study and exhibition.

Number of specimens of Pisces registered, 759.

Mollusca (Galleries 7 and 8, and Workroom).—The Cephalopoda registered, labelled, and incorporated include:—Ammonoidea and Nautiloidea mostly from the Devonian rocks of Devon (A. Champernowne coll.); a large series of ammonites from the Liassic rocks of England (Dorset, Gloucestershire, Oxfordshire, Somerset, Warwickshire, Worcestershire, and Yorkshire), and Wales (Glamorganshire), (R. F. Tomes, T. J. Slatter, and S. G. Perceval colls.); large series of ammonites from the Oxford Clay near Peterborough (E. T. Leeds coll.); belemnites from the Jurassic rocks of Somaliland (H. T. Burls coll.); Ammonoidea from the Cretaceous rocks of Kent (Dibley coll.), I. of Wight (Bather coll.), and Galicia (Zuber exchange); Belemnoidea from the Chalk of Hampshire (Bather coll.), and of the Yorkshire coast (G. Sheppard coll.); and Nautiloidea from the Danian of Denmark (Pindborg coll.).

The principal addition to the exhibited series is a large British Chalk Ammonite, mounted in the glass case between wall-cases 3 and 4.

Considerable progress has been made with a revision of the whole of the Museum collection of British Lias Ammonites, and a selection is being prepared for exhibition.

The slip-catalogue of type, figured, and historical specimens of Cephalopoda has been continued.

Palæozoic Gastropoda and Lamellibranchia registered, labelled, and incorporated include :—Gastropoda and Lamellibranchia from the Ordovician of Scotland (McPherson coll.); Gastropoda and Lamellibranchia from the Devonian rocks of Devon (A. Champernowne coll.); Lamellibranchia from the Devonian of Germany (A. Champernowne and S. Dohm colls.); Gastropoda from the Devonian of Germany (A. Champernowne and Bather colls.).

The unexhibited Lamellibranchia belonging to the Gilbertson collection of Carboniferous fossils, that were removed from Gallery 11 and re-labelled, have been incorporated with the general collection.

A small block containing Gastropoda from the Permian of Durham has been mounted in table-case 14 (Gallery 8); and a specimen of *Aviculopecten dissimilis* from the Carboniferous Limestone of Yorkshire has been similarly mounted in table-case 15 (Gallery 8).

The determination and re-arrangement of all the British Carboniferous Gastropoda have been completed; a selection has been mounted and exhibited in table-case 15, and the rest re-arranged in drawers.

Considerable progress has been made with the determination and re-arrangement of all the British Carboniferous Lamellibranchia, and some have been mounted and exhibited in table-case 15.

Slip-catalogues of type, figured, and historical specimens of (*a*) Palæozoic Lamellibranchia, (*b*) Palæozoic Gastropoda, and (*c*) the Conularida respectively, are in progress.

The Mesozoic and Tertiary Gastropoda and Lamellibranchia registered, labelled, and incorporated include: — British Rhaetic specimens (L. Richardson coll.); a French Mesozoic collection (Valabrègue), shells from the Lower Cretaceous of Sandown, Isle of Wight (Wilmer coll.), and from the Upper Cretaceous of Galicia (Zuber coll.); Tertiary shells from New Zealand (Geol. Surv. N. Zealand), and Tertiary and Post-Tertiary shells from the West Indies (Wilmer coll.); a series from the Eocene of Somaliland (Burls coll.), and another from the Miocene of British East Africa (Oswald coll.); an apparently Pliocene collection from Nigeria (Parkinson coll.); British Post-Pliocene non-marine shells (J. P. Johnson coll.); and Neolithic non-marine shells from Ireland (Welch coll.).

Number of specimens of Mollusca registered :—Cephalopoda, 2,280; Gastropoda, 5,393; Lamellibranchia, 1,394.

Arthropoda (Gallery 8 and Workroom).—The acquisitions registered, labelled, and incorporated include :—Trilobita from the Upper Ordovician of Girvan (W. McPherson coll.) and Haverfordwest (Bather coll.), the Silurian of New South Wales (J. Mitchell coll.), and the Devonian of the Eifel (Dohm, Bather, and Hopmann colls.); Phyllopoda from the Rhaetic beds of the west of England (L. Richardson coll.); Ostracoda from the *Leptaena*-kalk of Dalecarlia (Bather coll.) and the

Devonian of the Eifel (Dohm coll.); Cirripedia from the *Trinucleus*-shales of Sca a (Moberg coll.), the *mucronata*-Chalk of Rügen (Laur coll.), and the Danian of Faxe (Pindborg coll.); Phyllocarida from the Upper Ordovician of Girvan and the Upper Silurian of Lanark (W. McPherson coll.); Decapoda from the Oxfordian near Peterborough (Leeds coll.), and the Danian of Faxe (Pindborg coll.); Trichoptera in Miocene amber from East Prussia (Klebs coll.).

Rough material from the Olenellian sandstone of Comley, Shropshire, has been examined, and the resulting Trilobites re-registered and labelled. The revision of the collection of Cirripedia has been continued, and among series thus re-labelled and re-registered are those from the Wenlock Limestone of Dudley, and from the Coralline Crag of Suffolk (S. V. Wood coll.).

The mounting of the large collection of amber inclusa is now almost finished. It has been found possible, not only to mount the gum-copal inclusa in a similar manner, but to discriminate between the fossil gums from different localities; the important information thus obtained has been entered on the labels.

Among additions to the exhibited collection may be mentioned: a series of British Tertiary Termites, including new species of *Mastotermes*, a Recent Australian genus; a specimen of *Caryocaris kilbridensis*, described by H. Woodward as possessing winter eggs (Quart. Journ. Geol. Soc., 1912); a lobster, *Mecochirus longimanus*, from the Lithographic Stone of Solenhofen, with the tracks left in its final movements (described in Knowledge, September 1914).

The slip-catalogue of exhibited specimens has been continued.

Number of specimens of Arthropoda registered, 1,370.

Echinoderma (Gallery 8).—The acquisitions registered, labelled, and incorporated, include: — Echinoidea from the Lower Carboniferous rocks of various British and foreign localities (G. H. Morton coll.), the Lower Oolitic rocks of the West of England (L. Richardson coll.), the Bradford Clay (Möckler washings), the Chalk of S.E. England (Withers coll. and others), and the Danian of Faxe (Pindborg coll.); Asteroidea and Ophiuroidea from the Upper Ordovician starfish bed of Girvan (W. McPherson coll.), the Lower Devonian rocks of the Eifel (Dohm coll.), the Trias of Silesia, the Bradford Clay and Chalk Marl (Möckler coll.); Crinoidea from the Niagaran chert of Iowa (A. O. Thomas coll.), the Devonian of the Eifel (Dohm coll.) and of England (G. H. Morton coll.), the Carboniferous of Donegal (Montmorency coll.), of the British Isles and Belgium (G. H. Morton coll.), of Queensland (squeezes from Queensland Geological Survey coll.), the Boone formation of Missouri (Crane coll.) the Bradford Clay (Möckler washings), the *cor-testudinarium*-Chalk of Surrey (Withers coll.), the *Marsupites*-zone of Westphalia (Bather coll.), the

Mucronata-Chalk of Rügen (Laur coll.), and the Danian of Faxe (Nielsen and Pindborg colls.); Blastoidea from the Carboniferous rocks of the British Isles (Bingham and G. H. Morton colls.), and Queensland (squeezes from Queensland Geological Survey coll.); Cystidea from the Ordovician near Haverfordwest (Bather coll.), of Girvan (W. McPherson coll.), and the Sevier shales of Tennessee (Springer coll.).

In the exhibited series the re-arrangement of the British Palæozoic Echinoidea has been completed. and all specimens provided with new printed labels. A remarkably large specimen of *Heteroclypeus* from the Miocene of Malta, presented by Lieut. Hitchins, R.N., has been added to the series of foreign Echinoidea. The British Cystidea and the Blastoidea have been moved and partly re-arranged. The Blastoids from the Gilbertson collection have been incorporated in this series, and they, as well as several specimens of *Orophocrinus* recently studied, have received new printed labels. Several examples of the Edrioasteroidea have also been exhibited.

The few Recent Crinoids exhibited here for comparison with the fossils have been placed in fresh spirit and provided with new printed labels.

The slip-catalogue of exhibited specimens has been continued. The slip-catalogue of specimens of Blastoidea has been brought up to date. Progress has also been made with the slip-catalogue of genera and species of the Cystidea and Edrioasteroidea.

Number of specimens of Echinoderma registered: Echinoidea, 595; Asteroidea and Ophiuroidea, 763; Crinoidea, 1,431; Blastoidea, 43; Cystidea and Edrioasteroidea, 73. Total, 2,905.

Annelida (Gallery 8 and Workroom).—The acquisitions registered, labelled, and incorporated include specimens from the Upper Ordovician of Girvan (W. McPherson coll.) and Westmoreland (Bather coll.), the Carboniferous of Derby and Donegal (Montmorency coll.), the Lower Oolites of Gloucestershire (L. Richardson coll.), the Senonian of Surrey (Withers coll.), and the Danian of Faxe (Pindborg coll.).

A few minor changes have been made in the exhibited series, and the slip-catalogue has been kept up to date.

Number of specimens of Annelida registered, 326.

Brachiopoda (Gallery 8 and Workroom).—The registration of the Walker collection has been completed. The total number of specimens in this collection is now known to be 125,868.

The acquisitions registered, labelled, and incorporated include Cambrian Brachiopoda from America (Smithsonian Institution Exchange), an Ordovician collection from America (presented by Dr. A. F. Foerste), Russian Permian Brachiopoda (presented by I. A. Stigand, Esq.), and specimens from the Cretaceous of Ireland (J. Wright and G. Donaldson colls.).

Number of specimens of Brachiopoda registered, 6,150.

Polyzoa (Gallery 8 and Workroom).—Progress has been made in mounting and registering Cretaceous Polyzoa as a preliminary to cataloguing, notably recently acquired specimens from Worms Heath, Surrey, from Cuckmere Haven and Sompting, Sussex, and from Vendôme, Loir-et-Cher. Such Cribriline forms as are already mounted have been systematically arranged.

Number of specimens of Polyzoa registered, 1,800.

Anthozoa and Hydrozoa (Gallery 10).—The revision of the Carboniferous Corals has been continued and nearly 350 specimens have been cut, including many thin sections. Specimens recently acquired from the Ordovician of France and Ayrshire, from the Devonian of the Eifel, and from the Carboniferous of Great Britain (Stanley Smith coll.) have been registered and incorporated.

Number of specimens of Anthozoa and Hydrozoa registered, 302.

Porifera (Gallery 10).—Recently acquired specimens from the Chalk of Worms Heath, Surrey, and Sompting, Sussex, have been registered and incorporated.

Number of specimens of Porifera registered, 71.

Protozoa (Gallery 10).—Recently acquired Protozoa from the Permian of Japan, the Senonian of Sussex and the Tertiary of Spain, and specimens of the problematical group Archæocyathinae from the Cambrian of Sardinia, have been registered and incorporated.

Number of specimens of Protozoa registered, 6.

Plantæ (Gallery 10).—A new case has been arranged and placed near the entrance of the Gallery to illustrate the various modes of fossilisation of plants.

The exhibited collection of Lower Carboniferous plants in table-case 31 has been re-arranged and re-labelled.

In connection with the Catalogue, progress has been made with the revision of the Cretaceous plants, and numerous microscope-sections of Cretaceous woods have been prepared.

The unexhibited Tertiary plants from the Arctic regions have been arranged and labelled in drawers, and progress has also been made with the identification of other Tertiary collections.

A polished piece of the trunk of a silicified tree from the "petrified forest" of Arizona, U.S.A., presented by C. Arthur Pearson, Esq., has been placed on a special stand in the Central Hall.

Number of specimens of Plantæ registered, 484.

Tracks and Rock-Specimens (Gallery 11).—A Paramoudra from the Chalk of Antrim has been mounted with the specimens from Norfolk and a Re ent sponge for comparison, between wall-cases 1 and 2.

A Dinosaurian footprint from the Purbeck Beds of Swanage, Dorset, has been mounted on the end wall of the Gallery.

Number of specimens registered, 25.

Old Collections (Gallery 11 and Workroom).—The cleaning and arrangement of the Geological Society's collection in the cabinets in the Workroom have been completed.

II.—*Duplicates and Exchanges.*

Duplicate fossils have been presented to University College, Aberystwyth, and to the Museums of Colne and Newbury; also (in return for services rendered to the Department of Geology) to Dr. R. Kidston, Prof. H. F. Cleland, Prof. E. Kayser, Dr. G. Ulmer, and the Director of the Mineralogical Museum, University of Copenhagen.

Exchanges of duplicate fossils and plaster casts of fossils have been made with the United States National Museum, Washington; American Museum of Natural History, New York; Amherst College, Mass., U.S.A.; National Museum of Natural History, Paris; Royal School of Mines, Berlin; Geological Survey of Hungary, Budapest; the Geological Institutes of the Universities of Bonn and Barcelona; and Mr. John Mitchell, Sydney, New South Wales.

III.—*Departmental Library.*

The additions to the Library which have been registered, stamped, catalogued, and press-marked comprise 150 new works and pamphlets, of which 50 were purchased and 100 presented; 369 parts of serials in progress, of which 163 were purchased and 233 presented. Ninety-five sheets of maps were acquired, 53 by purchase and 42 by donation. Forty-seven photographs were presented. Eleven volumes and 25 pamphlets were obtained by transfer from other Departments.

One hundred and fifty-six volumes have been bound, press-marked, and returned to the shelves. One thousand eight hundred and seventy-two visits were made to the Library by students and others.

The following is an alphabetical list of personal donors to the Library :—

Andrews, Dr. C. W
Bather, Dr. F. A.
Becker, Herr Otto
Bennett, G. F., Esq.
Broom, Dr. R.
Bulleid, A., Esq.
Calvert, Prof. P. P.
Cottreau, J., Esq.
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Grist, E. F., Esq.
Hall, T. C. F., Esq.
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Hawkesworth, E., Esq.

Heron-Allen, E., Esq.
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Lambe, L. M., Esq.
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Menteath, P. W. S., Esq.
Newton, R. B., Esq.
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Pavlov, Prof. A. P.
Pravoslavleff, Prof. P.
Potter, G., Esq.
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Seward, Prof. A. C.
Scott, Dr. D. H.
Sherborn, C. D., Esq.
Smeeth, Dr. W. F.
Spath, L. F., Esq.
Stefanini, Dr. G.
Stopes, Dr. M. C.
Teppner, Herr W.
Thomas, H. H., Esq.
Ulmer, Dr. G.
Warren, S. H., Esq.
Weny, Dr. W.
Whitaker, W., Esq.
Withers, T. H., Esq.
Woodward, Dr. A. S.
Woodward, B. B., Esq.
Woodward, Dr. Henry

IV.—*Publications.*

The manuscript of the second part of the Catalogue of Cretaceous Plants has been nearly completed, and the volume is now in the press.

The Guide Book to the Fossil Remains of Man has been passed for press.

Apart from the official publications issued by the Trustees, the following descriptive papers dealing with different parts of the collection have been contributed to scientific journals during 1914:—

By Dr. A. S. Woodward.

1. Missing Links among Extinct Animals. Rep. Brit. Assoc., 1913 (1914), pp. 783–787.

2. [With Mr. C. Dawson.] Supplementary Note on the Discovery of a Palæolithic Human Skull and Mandible at Piltdown (Sussex). Quart. Journ. Geol. Soc., vol. lxx., pp. 82–93, pls. xiv., xv.

3. On an apparently Palæolithic Engraving on a Bone from Sherborne (Dorset). Loc. cit., vol. lxx., pp. 100–101.

4. On the Lower Jaw of an Anthropoid Ape (*Dryopithecus*), from the Upper Miocene of Lérida (Spain). Loc. cit., vol. lxx., pp. 316–320, pl. xliv.

By Dr. F. A. Bather.

1. British Fossil Crinoids.—X. *Sycocrinus* Austin, Lower Carboniferous. Ann. Mag. Nat. Hist. [8], vol. xiii., pp. 245–255, pl. x.

2. Studies in Edrioasteroidea.—IV. The Edrioasters of the Trenton Limestone. Geol. Mag. [6], vol. i., pp. 115–125, 162–171, pls. x–xiv.

3. Studies in Edrioasteroidea.—V. *Steganoblastus*. Tom. cit., pp. 193–203, pl. xv.

4. Note on some reef-structures in Gotland. Proc. Geol. Assoc., vol. xxv., pp. 225–228.

5. The Fossil Track of a Dying Lobster. Knowledge, vol. xxxvii., p. 329, fig. 325.

6. The Devonian Crinoid, *Cupressocrinus townsendi* König sp. Ann. Mag. Nat. Hist. [8], vol. xiv., pp. 397–402.

7. Palæozoic Cirripedes from Sweden [Review]. Geol. Mag. [6], vol. i. pp. 558–560.

By Mr. R. B. Newton.

1. Cretaceous Fossils from the Bethelsdorp Salt-Pans, South Africa, belonging to the Albany Museum. Rec. Albany Mus., vol. iii., pp. 38–39.

2. The Fossils found on the Site of the Torquay Museum. Geol. Mag. [6], vol. i., pp. 314–318.

3. On some Non-Marine Molluscan Remains from the Victoria Nyanza Region, associated with Miocene Vertebrates. Quart. Journ. Geol. Soc., vol. lxx., pp. 187–198, pl. xxx.

By Dr. C. W. Andrews.

1. On the Lower Miocene Vertebrates from British East Africa, collected by Dr. Felix Oswald. Quart. Journ. Geol. Soc., vol. lxx., pp. 163–186, pls. xxvii–xxix.

By Mr. W. D. Lang.

1. On *Herpetopora*, a New Genus containing three New Species of Cretaceous Cheilostome Polyzoa. Geol. Mag. [6], vol. i., pp. 5–8, pl. ii.

2. Some New Genera and Species of Cretaceous Cheilostome Polyzoa. Loc. cit., vol. i., pp. 436–444, pl. xxxiv.

3. The Geology of the Charmouth Cliffs, Beach, and Foreshore. Proc. Geol. Assoc., vol. xxv., pp. 293–360, with maps and sections.

By Mr. T. H. Withers.

1. Some Cretaceous and Tertiary Cirripedes referred to *Pollicipes*. Ann. Mag. Nat. Hist. [8], vol. xiv., pp. 167–206, pls. vii., viii.

2. A new Cirripede from the Cenomanian Chalk Marl of Cambridge. Geol. Mag. [6], vol. i., pp. 494–497, text-figs. 1–6.

3. A remarkable new Cirripede from the Chalk of Surrey and Hertfordshire. Proc. Zool. Soc., 1914, pp. 945–953, pl. I.

By Dr. Felix Oswald.

1. The Miocene Beds of the Victoria Nyanza and the Geology of the Country between the Lake and the Kisii Highlands. Quart. Journ. Geol. Soc., vol. lxx., pp. 128–162, pls. xx–xxvi.

By Miss D. M. A. Bate.

1. On Remains of a Gigantic Land Tortoise (*Testudo gymnesicus*, n. sp.) from the Pleistocene of Menorca. Geol. Mag. [6], vol. i., pp. 100–107.

2. On the Pleistocene Ossiferous Deposits of the Balearic Islands. Loc. cit., vol. i., pp. 337–345, pl. xxv.

By Dr. W. Freudenberg.

1. Die Säugetiere des älteren Quartärs von Mitteleuropa. Geol. und Palæont. Abhandl., vol. xvi., pts., 4, 5.

By Dr. G. Schlesinger.

1. Ein neuerlicher Fund von *Elephas planifrons* in Niederösterreich. Jahrb. k. k. Geol. Reichsanst. Wien, vol. lxiii., pp. 711-742, pls. xxvii., xxviii.

By Baron F. von Huene.

1. Beiträge zur Geschichte der Archosaurier. Geol. und Palæont. Abhandl., vol. xvii., pp. 3–53, pls. i–vii.

2. Beiträge zur Kenntnis des Schädels einiger Pterosaurier. Loc. cit., vol. xvii., pp. 57–65, pls. i., ii.

By Mr. R. W. Hooley.

1. On the Ornithosaurian Genus *Ornithocheirus*. Ann. Mag. Nat. Hist. [8], vol. xiii., pp. 529–557, pl. xxii.

By Mr. D. M. S. Watson.

1. The Zones of the Beaufort Beds of the Karroo System in South Africa. Geol. Mag. [6], vol. i., pp. 203–208.

2. On a Femur of Reptilian Type from the Lower Carboniferous of Scotland. Loc. cit., vol. i., pp. 347–348, pl. xxvii.

3. The *Cheirotherium*. Loc. cit., vol. i., pp. 395–398.

4. *Pleurosaurus* and the Homologies of the Bones of the Temporal Region of the Lizard's Skull. Ann. Mag. Nat. Hist. [8], vol. xiv., pp. 84–95, pl. vi.

5. *Dicynodon halli*, sp. n., an Anomodont Reptile from South Africa. Loc. cit., vol. xiv., pp. 95–97.

6. On the Nomenclature of the South African Pariasaurians. Loc. cit., vol. xiv., pp. 98–102.

7. On the skull of a Pariasaurian Reptile, and on the Relationship of that Type. Proc. Zool. Soc., 1914, pp. 155–180.

8. *Procolophon trigoniceps*, a Cotylosaurian Reptile from South Africa. Loc. cit., 1914, pp. 735–747, pls. i.–iii.

9. The Deinocephalia, an Order of Mammal-like Reptiles. Loc. cit., pp. 749–786, pls. iv.–v.

By Miss I. B. J. Sollas and Prof. W. J. Sollas.

1. A Study of the Skull of a *Dicynodon* by means of Serial Sections. Phil. Trans., vol. 204B, pp. 201–225, pls. xvii., xviii.

By Prof. J. C. Moberg.

1. Om Svenska Silurcirripeder. Lunds Univ. Årsskrift (n. f.), Afd. 2, Bd. ii., No. i., 20 pp., ii. pls.

By Kurt, Baron von Rosen.

1. Die Fossilen Termiten: eine kurze Zusammenfassung der bis jetzt bekannten Funde. Trans. Entom. Congr., 1912, pp. 318–335, pls. xxvi.–xxxi.

By Mr. L. F. Spath.

1. On the Development of *Tragophylloceras loscombi* (J. Sowerby). Quart. Journ. Geol. Soc., vol. lxx., pp. 336–362, pls. xlviii.–l.

By Dr. R. Kidston.

1. On the Fossil Flora of the Staffordshire Coal Fields, part III. Trans. Roy. Soc. Edinb., vol. l., pp. 73-190, pls. v.–xvi.

By Dr. E. A. N. Arber.

1. A Revision of the Seed Impressions of the British Coal Measures. Ann. Botany, vol. xxviii., pp. 81–108, pls. vi.–viii.

By Mrs. Agnes Arber.

1. An Anatomical Study of the Palæozoic Cone-genus *Lepidostrobus*. Trans. Linn. Soc., Botany, vol. viii., pp. 205–238, pl. xxi.–xxvii.

By Dr. Margaret J. Benson.

1. *Sphærostoma ovale* (*Conostoma ovale et intermedium*, Williamson), a Lower Carboniferous Ovule from Pettycur, Fifeshire, Scotland. Trans. Roy. Soc. Edinb., vol. l., pp. 1–15, pls. i., ii.

By Dr. Marie C. Stopes.

1. A new Cretaceous Plant from Nigeria. Geol. Mag. [6], vol. i., pp. 433–435, pl. xxxiii.

V.—*Acquisitions.*

A.—*By Donation.*

Mammalia.—Associated series of skull, mandible, femur, tibia, humerus and portions of other bones of *Pliolophus vulpiceps*, from the London Clay of Harwich, being the type-specimens described by Owen, Quart. Journ. Geol. Soc., vol. xiv. (1858). *Presented by Mrs. R. Bull.*

Coloured plaster casts of the femur and tibia of *Zaglossus hacketti*, Glauert. *Presented by the Director of the Western Australian Museum and Art Gallery.*

Tail-sheath of *Hoplophorus* and two vertebræ from excavations for extension of docks at Buenos Ayres. *Presented by the Buenos Ayres Southern Dock Co., Ltd.*

Sub-fossil tooth of *Physeter* from sand-dunes near Port Phillip Head, Victoria, Australia. *Presented by C. F. Belcher, Esq.*

A portion of jaw and a femur of *Hippopotamus* from Whitstable. *Presented by the Urban District Council, Whitstable.*

A skull and mandible of *Bos*, four skulls of *Ovis*, one skull and cannon bone of *Equus*, from excavations on the site of the Post Office, Denman Street, S.E. *Presented by the Postmaster-General.*

Plaster cast of first milk-molar of *Elephas primigenius* from Doneraile Cave, Co. Cork. *Presented by Dr. R. F. Scharff.*

Carpal bone and os innominatum of *Elephas primigenius* and portion of humerus of *Felis leo* from the Pleistocene Thames deposits, Salisbury Square, E.C. *Presented by Frank Lloyd, Esq.*

Skull of new genus and species allied to *Aeluropus* from a cave at the ruby mines, Mogok, Upper Burma. *Presented by A. L. Bacon, Esq.*, per *F. Atlay, Esq.*

Femur and tibia of *Ursus deningeri* from Pleistocene Clay, Portslade, near Brighton. *Presented by Dr. Eliot Curwen.*

Plaster cast of portion of tusk of *Trichechus huxleyi* from the Boulder Clay, Hornsea. *Presented by Prof. W. Boyd Dawkins, F.R.S.*

Fifty-four bones of bats (*Pteropus rodricensis* and *P. niger*) from a Recent deposit in the island of Mauritius. *Presented by the Superintendent, Museum of Zoology, Cambridge.*

Aves.—Plaster cast of humerus of *Aepyornis maximus*, figd. by Dr. L. Monnier in Annales de Paléontologie, vol. viii. (1913), pl. vi., fig. 6. *Presented by Dr. G. Grandidier.*

Three footprints of adult and young *Anomalopteryx* from New Zealand. *Presented by Arthur Bevan, Esq., M.D.*

Two skulls and mandibles and about seventy other bones of the extinct bird known as the Cahow, from Bermuda. *Presented by F. Tweddell, Esq., M.D.*

Reptilia and Amphibia.—Three plaster casts of the type specimens of fossil reptiles (*Galechirus, Galeophyrus,* and *Galopus*) from the Karroo Formation, S. Africa. *Presented by Dr. Robert Broom.*

Ten fossil reptiles (*Procolophon, Kannemeyeria, Diademodon, &c.*) collected by Mr. D. M. S. Watson in the Karroo Formation of South Africa. *Presented by the Trustees of the Percy Sladen Fund.*

Three Crocodilian teeth from the Jurassic of Eschershausen, Brunswick. *Presented by the Libraries and Museum Committee, Eastbourne.*

Plaster casts of the type cervical vertebræ of *Plesiosaurus limnophilus* and of cervical vertebræ of *Plesiosaurus valdensis* from the Wealden of Westphalia. *Presented by Dr. Th. Wegner.*

Skull of a large Chelonian and three shells of Chelonians from the London Clay of Harwich. *Presented by Mrs. R Bull.*

Humerus of Pleurodiran Chelonian from the Barton Clay, Barton, Hants. *Presented by V. E. G. Bristowe, Esq.*

Pisces.—Three teeth of *Ceratodus* from the Karroo Formation of South Africa. *Presented by the Trustees of the Percy Sladen Fund.*

Three Pycnodont jaws from the Jurassic of Eschershausen, Brunswick. *Presented by the Libraries and Museum Committee, Eastbourne.*

A fossil fish (*Mioplosus*) from the Eocene Green River Shales, Wyoming, U.S.A. *Presented by Dr. Franklin Parsons.*

Portion of mandibular dentition of *Pycnodus* and tooth of *Carcharodon* from the Eocene limestone of Mokattam, Cairo. *Presented by G. Foster Smith, Esq.*

A Characinid fish (*Alestes*) from a probably Pleistocene deposit of the Gold Coast. *Presented by A. E. Kitson, Esq.*

Mollusca.—Two molluscs, collected by the donor, from the Lower Llandovery beds of Haverfordwest. *Presented by Dr. F. A. Bather, F.R.S.*

Enlarged model of shell of *Ascoceras*; also mould for same, and coloured copy of model. *Presented by G. C. Crick, Esq.*

Three Devonian Gastropods, collected by the donor near Gerolstein, Eifel. *Presented by Dr. F. A. Bather, F.R.S.*

Twelve plates of *Chiton* from Carboniferous Shales 300 ft. below the Hosie Limestone at Woodmill, Dunfermline. *Presented by Robert Dunlop, Esq.*

A small slab of Carboniferous Limestone with *Aviculopecten*, from Richmond, Yorkshire. *Presented by Miss Caroline Shuckburgh.*

Pterinopecten papyraceus from the marine band overlying Alton Coal, Shipley, Yorkshire. *Presented by Dr. Felix Oswald.*

One *Conularia* from the Permo-Carboniferous of Branxton railway cutting near West Maitland, New South Wales. *Presented by R. Bullen Newton, Esq.*

Three pieces of shale with fossil shells (*Aucella*, &c.), probably Triassic, from Cross Bay, Spitzbergen, *Presented by Lady Brown.*

Eighteen Ammonites and one Lamellibranch from the Upper Lias of Epirus and Corfu. *Presented by John B. Sordina, Esq.*

Part of an Ammonite (*Perisphinctes*) from the Ampthill Clay, Bedfordshire. *Presented by G. C. Crick, Esq.*

Two Cephalopoda from the Jurassic of Somaliland. *Presented by H. T. Burls, Esq.*

An Ammonite from a boring at Torres Vedras, Portugal. *Presented by Prof. J. W. Gregory, F.R.S.*

An Ammonite (*Hoplites interruptus*) from the Gault, Stonebarrow, Charmouth. *Presented by Miss Harding.*

Two pieces of an Ammonite (*Hoplites interruptus*) from the Gault of Stonebarrow, Charmouth. *Presented by Horace W. Monckton, Esq.*

Two specimens of *Hippurites radiosa* from the Upper Cretaceous, Beaumont, Dordogne, France. *Presented by Monsieur E. Delpit.*

Thirty-one Belemnites from the Chalk of Yorkshire. *Presented by George Sheppard, Esq.*

Thirteen Lamellibranchs (Ostreidae) and one Cephalopod (*Pseudotissotia*) from the Cretaceous of Tunisia, North Africa. *Presented by Captain Jenkinson.*

Two Cretaceous bivalve shells from Jamaica. *Presented by Anthony Benn, Esq.*

Four Eocene Lamellibranchs from Somaliland. *Presented by H. T. Burls, Esq.*

Nine Pliocene Gastropods from Corfu. *Presented by John B. Sordina, Esq.*

A collection of a hundred invertebrate fossils, chiefly Mollusca, from the Tertiary of Trinidad. *Presented by J. A. Bullbrook, Esq.*

Three shells of *Ostrea* from the Tertiary of the boundary of Mexico and California. *Presented by Alfred Mosely, Esq., C.M.G.*

Six Post-Tertiary Gastropods from Somaliland. *Presented by H. T. Burls, Esq.*

Six co-types of *Pisidium vincentianum* from the Pleistocene of Soignies, Belgium. *Presented by B. B. Woodward, Esq.*

A series of non-marine shells collected by Mr. Reginald A. Smith from Holocene deposits at Blaschenwell, near Corfe Castle (seventeen species named by Mr. A. S. Kennard). *Presented by the Earl of Eldon.*

Arthropoda.—The type-specimen of the Phyllopod Crustaceans, *Caryocaris kilbridensis*, from the Arenig of Kilbride, co. Mayo. *Presented by Prof. S. H. Reynolds.*

Five shale fragments with remains of the Cirripede *Leptocoleus suecicus* from the Black Trinucleus shales of Östergötland. *Presented by Prof. J. C. Moberg.*

Sixty-two Trilobites from the Upper Ordovician of Pembrokeshire, and one Trilobite from the Upper Llandovery Beds of Haverfordwest, collected by the donor. *Presented by Dr. F. A. Bather, F.R.S.*

Two plaster casts and one wax squeeze of a Trilobite, *Thysanopeltis acanthopeltis*. *Presented by Dr. Rudolf Richter.*

Eleven Trilobites collected by the donor from the Devonian, near Gerolstein, Eifel. *Presented by Dr. F. A. Bather, F.R.S.*

Fifteen remains of Decapod Crustacea from the Lower Oxford Clay, Eye, near Peterborough. *Presented by E. Thurlow Leeds, Esq.*

Forty-five insect remains from a Holocene deposit at Knettleshall, Suffolk. *Presented by A. S. Kennard, Esq.*

Echinoderma.—Ten Cystids from the Sevier Shale of Grainger co., Tennessee. *Presented by Dr. Frank Springer.*

Thirty Upper Ordovician Echinoderms, collected by the donor from Pembrokeshire and Carmarthen. *Presented by Dr. F. A. Bather, F.R.S.*

An Edrioasteroid (*Agelacrinus austeni*) from the Richmondian, Adams co., Ohio. *Presented by Mr. Stephen R. Williams.*

Twelve-arm fans and twenty fragments of the Crinoid *Petalocrinus mirabilis*, from the Niagaran, near Monticello, Jones Co., Iowa. *Presented by Mr. Abram O. Thomas.*

One Crinoid (*Lyriocrinus*) from the Wenlock Limestone, Rushall, Worcestershire. *Presented by Miss M. S. Johnston.*

Four Devonian Crinoids, collected by the donor near Gerolstein, Eifel. *Presented by Dr. F. A. Bather, F.R.S.*

Three Lower Carboniferous Crinoids from Freshwater West, S. Pembrokeshire. *Presented by A. L. Leach, Esq.*

Two pieces of Crinoidal Carboniferous Limestone, from province Mino, Japan. *Presented by Prof. H. Yabe.*

One Crinoid, *Ulocrinus globularis*, from the Carboniferous Limestone of Richmond, Yorkshire. *Presented by Miss C. Shuckburgh.*

Eighteen plates of the ventral sac of the Crinoid *Hydreionocrinus*, from the Hurlet Limestone of Roscobie, Fife. *Presented by James Wright, Esq., jun.*

Two Echinoids (*Pygurus michelini*) from the Cornbrash at the Midland Railway Pit, Bedford (*see* Geol. Mag., 1900, p. 515, footnote). *Presented by G. C. Crick, Esq.*

Ten Echinoids from the Upper Chalk, Swanscombe, Kent. *Presented by the Associated Portland Cement Manufacturers, Ltd.*

Twenty specimens of the Crinoid *Cyathidium holopus*, from the Danian, Faxe, Denmark. *Presented by the Director of the University Geological Museum, Copenhagen.*

An Echinoid (*Clypeaster*) from the Miocene of Port Morant, Jamaica. *Presented by A. C. Bancroft, Esq., J.P.*

An Echinoid from the Miocene of Jamaica. *Presented by Anthony Benn, Esq.*

Two Echinoids (*Astrodaspis tumidus*) from the Upper Miocene, San Pablo formation, of Mt. Diablo, California. *Presented by W. S. W. Kew, Esq.*

An Echinoderm spine from the Post-Tertiary of Somaliland. *Presented by H. T. Burls, Esq.*

Brachiopoda.—A Brachiopod (*Mickwitzia monilifera*) from the Cambrian of Sweden. *Presented by Miss M. S. Johnston.*

Twenty-seven Brachiopods from the Upper Ordovician of Pembrokeshire and Carmarthen, and three Brachiopods from the Lower Llandovery of Haverfordwest, all collected by the donor. *Presented by Dr. F. A. Bather, F.R.S.*

Fourteen Devonian Brachiopods collected by the donor near Gerolstein, Eifel. *Presented by Dr. F. A. Bather, F.R.S.*

Five specimens of *Spirifera* from the Permo-Carboniferous of Branxton railway cutting near West Maitland, New South Wales. *Presented by R. Bullen Newton, Esq.*

Thirty Jurassic Brachiopoda from Somaliland. *Presented by H. T. Burls, Esq.*

Polyzoa.—Sixty-three Polyzoa from the Upper Chalk of Sussex. *Presented by C. T. Gaster, Esq.*

Fifty Polyzoa from the Chalk zone of *Actinocamax quadratus*, Sompting, Sussex. *Presented by Mr. T. H. Withers.*

Coelentera.—Forty-two Corals and Polyzoa from the Upper Ordovician of Pembrokeshire and Carmarthen, and thirteen Corals from the Lower Llandovery of Haverfordwest, all collected by the donor. *Presented by Dr. F. A. Bather, F.R.S.*

Forty-four Corals and Polyzoa collected by the donor from the Devonian near Gerolstein, Eifel. *Presented by Dr. F. A. Bather, F.R.S.*

Twenty-five Corals from the Carboniferous Limestone of various localities in Great Britain, including several specimens figured in a paper by the donor (Trans. Nat. Hist. Soc. of Northumberland, n.s. vol. 3, pls. xvi.—xviii., 1910). *Presented by Stanley Smith, Esq.*

One Coral from the Permo-Carboniferous of Branxton railway cutting near West Maitland, New South Wales. *Presented by R. Bullen Newton, Esq.*

Porifera.—Fifteen Sponges from the Chalk zone of *Actinocamax quadratus*, Sompting, Sussex. *Presented by Mr. T. H. Withers.*

Protozoa.—Two pieces of Carboniferous Foraminiferal Limestone from province Mino, Japan. *Presented by Prof. H. Yabe.*

Miscellaneous Invertebrata.—Forty-six fossil Invertebrata (Foraminifera, Mollusca, and one Echinoid) from the Miocene, Lower Eocene and Upper Cretaceous of Portuguese East Africa. *Presented by C. O. Thiele, Esq.*

Nine fossil Invertebrata from North America collected by Sir John Richardson on the second Franklin Expedition, 1825. *Presented by H.M. Royal Naval Hospital, Haslar.*

Eight miscellaneous fossil Invertebrata. *Presented by Mrs. R. Bull.*

Plantæ.—A piece of petrified plant-remains from the Calciferous Sandstone, Burntisland, Fife; and two specimens of plant-containing nodules from Hokkaido, Japan. *Presented by Dr. Marie C. Stopes.*

Five specimens of fossil plants from the Coal Measures of Belgium and Russia. *Presented by Prof. Armand Renier.*

Eight fossil plants from the Coal Measures, Belgium. *Presented by W. N. Edwards, Esq.*

A polished piece of a silicified tree from the "petrified forest" of Arizona. *Presented by C. Arthur Pearson, Esq.*

Two specimens of *Marattiopsis anglica* from the Inferior Oolite, Yorkshire, figd. in Quart. Journ. Geol. Soc., 1913. *Presented by H. Hamshaw Thomas, Esq.*

One specimen of *Cladophlebis alata* from the Jurassic of Corwin Mines, Cape Lisburne, Alaska. *Presented by the executor of the late Mrs. Cordelia L. M. Noble.*

Six specimens of *Typhacites Kitsoni*, from the Cretaceous of Nigeria, described by Dr. M. Stopes in Geol. Mag., 1914. *Presented by A. E. Kitson, Esq.*

A Fucoid from the Flysch of Rapallo, Italy. *Presented by Miss M. S. Johnston.*

Nine dicotyledonous leaves from the Tertiary of South Ropp, Nigeria. *Presented by the Director of the Imperial Institute.*

Rock-specimens. — Slab of shell-bearing Magnesian Limestone from Ryhope, Durham. *Presented by C. T. Trechmann, Esq.*

Eleven specimens of Oolitic rocks from Gloucestershire, showing old surfaces bored by Molluscs and Annelids (*see* Proc. Geol. Assoc., vol. xxii., p. 104). *Presented by Linsdall Richardson, Esq.*

Ten specimens of Tertiary Limestone from Trinidad. *Presented by B. F. N. Macrorie, Esq.*

Pieces of Tertiary fossiliferous limestone from Grenada, collected by Gilbert G. Auchinleck, Esq., B.Sc., Superintendent of Agriculture, Grenada. *Presented by the Director of the Imperial Institute.*

Bone-breccia of Mousterian age from the cave of La Quina, France. *Presented by Miss Adela C. Breton.*

Sixty-two microscope-slides of rocks from deep borings at Richmond, Tottenham Court Road, and Kentish Town; described by Prof. J. W. Judd and Mr. C. Homersham, Quart. Journ. Geol. Soc., vol. xl. (1884), pp. 724–762, vol. xli. (1885), pp. 523–528. *Presented by the Governing Body, Imperial College of Science (Royal School of Mines).*

B.—*By Purchase.*

Mammalia.—Mandibular ramus of *Cimolestes* from the Cretaceous Laramie Beds of Alberta, Canada.

Three plaster casts of jaws of *Parapithecus, Propliopithecus*, and *Moeripithecus* from the Oligocene of the Fayum, Egypt.

An ulna of *Elephas* and seven other mammalian fossils from the Forest Bed of Bacton, Norfolk.

A molar of Mammoth from Big Bone Lick, Kentucky, U.S.A.

Elephant-remains from Chatham.

A plaster cast of the atlas of *Homo neogæus* from Argentina.

A plaster cast of the brain-cavity of the Neanderthal skull.

Reptilia.—Three fossil reptiles—*Pariasaurus, Broomia*, and *Dicynodon* from the Karoo Formation, S. Africa.

Ichthyosaurus, showing skin, from the Upper Lias, Holzmaden, Würtemberg (B. Hauff).

Armour of *Teleosaurus cadomensis* from the Great Oolite, Caen, Normandy.

About fifty-six vertebræ, ribs, shoulder-girdle, imperfect pelvis, humeri, femora and paddle-bones of *Picrocleidus;* the skull and mandible of *Mycterosuchus;* skull and interclavicle of *Peloneustes;* palatine bone, pelvic bones and hind paddle of *Ophthalmosaurus;* two abnormal Plesiosaurian humeri; a rib and ungual phalange of a Dinosaurian; all from the Oxford Clay of Peterborough (Leeds collection).

A Dinosaurian bone from the Chalk of Kent.

Turtle remains from the Chalk of Kent.

Reptiles from the Chalk of Kansas, U.S.A., including *Protostega, Toxochelys, Clidastes,* and *Pteranodon* (H. T. Martin collection).

Trionyx and Dinosaurian bones from the Laramie Beds of Alberta, Canada.

A Chelonian from the London Clay, Sheppey.

Pisces.—Eight fossil fishes from the Upper Silurian Passage Beds of Lanarkshire.

A specimen of *Heterostrophus* from the Oxford Clay of Peterborough.

Macropoma from the Chalk of Kent.

Fishes from the Chalk of Kansas, U.S.A.

Mollusca.—*Ephippoceras bilobatum* from the Carboniferous Limestone, Isle of Man.

Five hundred Ammonites and seventy other fossils from the Oxford Clay, near Peterborough (E. T. Leeds collection).

Three Ammonites, one Hamite, and three Nautili from the Chalk of Kent.

Arthropoda.—Fifty fossil invertebrates, chiefly *Ceratiocaris* and *Slimonia* from the Upper Silurian Passage Beds, Lanarkshire (W. McPherson collection).

Four Trilobites from the Middle Devonian of the Eifel.

Mechochirus with footprints, from the Lithographic Stone, Solenhofen.

Eleven hundred and eighty-six valves of Cirripedes, from the Cretaceous of England, Holland, and Denmark.

Fourteen valves of Cirripedes from the Miocene of Turin, Italy.

Sixty specimens of Amber, with insect-remains.

Echinoderma.—Twenty-four Asterozoa and seventy-eight Crinoidea from the Lower Coblentian of the Eifel.

One four-rayed *Cupressocrinus* and sixty-three specimens of *Poteriocrinus fusiformis* from the Middle Devonian of the Eifel.

Three Crinoids (*Macrocrinus,* &c.) from the Keokuk group of Indian Creek, Indiana.

Seven specimens of *Aspidura* from the Trias of Upper Silesia.

Three hundred and sixty-seven Echinoids from the Inferior Oolite of the West of England.

One *Asterias schulzei* from the Turonian of Silesia.

Polyzoa.—Five hundred and eighty-four microzoa, chiefly Polyzoa, from the Chalk of Surrey.

Porifera. — *Corynella* from the Lower Greensand of Faringdon.

Siphonia from the Upper Chalk, Brighton.

Protozoa.—Five microscope-slides of Radiolaria from the Chalk of Surrey, figured in a paper by W. M. Holmes, Quart. Journ. Geol. Soc., vol. lvi., pp. 694–704, plates xxxvii and xxxviii (1900).

Miscellaneous Invertebrata.—Three hundred and seventy invertebrate fossils from the Silurian of Girvan, Ayrshire (W. McPherson collection).

A hundred and forty invertebrata from the Lower Coblentian of the Eifel.

The White-Watson Collection of fossils, chiefly from Derbyshire.

Three hundred and fifty English Rhætic fossils.

Five hundred fossils from the Chalk of Faxe, Denmark.

Plantæ.—Six fossil Algæ from the Devonian of America, the Trias of the Tyrol, the Dogger of Italy, the Portlandian of Moravia, and the Eocene of France.

The total accessions during 1914 are as follows:—

A.—VERTEBRATA.		
By Donation	188	
,, Purchase	87	
,, Exchange	12	
		287
B.—INVERTEBRATA.		
By Donation	1,010	
,, Purchase	4,748	
,, Exchange	23	
		5,781
C.—PLANTÆ.		
By Donation	36	
,, Purchase	6	
		42
D.—ROCK SPECIMENS.		
By Donation	73	
		73
TOTAL		6,183

VI.—*Students and Visitors.*

The number of visits paid to the Department by students and other persons for the purpose of consultation or study during 1914 was 4,962.

VII.—*Demonstrations.*

Eleven parties were received in the Galleries of the Department of Geology, and demonstrations were given as follows :—

January 17th. — Lambeth Field Club (11 members); Dr. Bather.

February 7th. — Geologists' Association (22 members); Dr. Bather.

February 21st. — Battersea Field Club (17 members); Dr. Woodward.

February 21st.—Polytechnic Natural History Society (19 members); Dr. Andrews.

March 7th.—Ealing Natural History Society (16 members); Dr. Woodward.

March 7th.—Battersea Field Club (12 members); Mr. Lang.

March 21st.—Catford and District Natural History Society, (34 members); Dr. Woodward.

July 9th. — Hampstead Medical Society (9 members); Dr. Woodward.

July 30th.—St. Mark's Summer School of Teachers (17 members); Dr. Woodward.

October 17th.—Hampstead Natural History Society (27 members); Dr. Woodward.

December 12th.—South Western Polytechnic Geological Field Club (23 members); Dr. Woodward.

Arthur Smith Woodward.

Department of Mineralogy.

I.—*Arrangement.*

Selections from the large collection of foreign zeolites, presented by Mr. F. N. A. Fleischmann, have been exhibited in four panes of table-cases 42 and 43, and, in order to accommodate the remaining specimens, several of the species of zeolites in the General Collection have been re-arranged in the drawers.

The case of "Enclosures" and "Artificial Minerals" has been re-arranged.

After the removal of the large specimens of crocoite to the special case on the wall of the Gallery, the rest of the specimens of crocoite and specimens belonging to the adjacent species in the table-cases have been re-arranged.

The bulk of the Walker Collection of Minerals has been removed from the Recent Additions Case and distributed in the General Collection.

The ends of cases 23 and 25 in the Gallery have been re-velveted to render them dust-proof, and the large specimens in them have been cleaned and re-arranged.

In connection with the preparation of slip-catalogues of species, the specimens of diaspore, manganite, and gibbsite have been re-arranged, those exhibited in the case-tops being placed on re-polished trays fitted with clean cotton-wool; and the reserve specimens of fluor in the drawers have been re-arranged.

The African rocks belonging to the Geological Society's collection have been arranged in the new cabinets in the Library and Rock-room.

The collections of rocks made in various Arctic and Antarctic Expeditions have been re-arranged in order of register-numbers.

The series of limestones in the collection of rock-species has been re-arranged.

The collection of meteorites has been re-arranged throughout in order to allow of expansion.

The french-polishing of the meteoric irons which showed signs of rusting has been continued.

New screens for the lime-boxes have been designed and placed in the meteorite cases.

Sixty-two boxes or parcels of mineral and rock-specimens have been unpacked and examined; eighty-six boxes have been packed and despatched.

II.—*Registration, Indexing, and Cataloguing.*

All the specimens of minerals, rocks, and meteorites acquired during the year, including the large collection of zeolites presented by Mr. F. N. A. Fleischmann, have been registered, num-

bered, labelled, and incorporated with the Collection, and many specimens belonging to the Geological Society's collection have been registered.

The preparation of the slip-catalogues of the mineral-specimens in the Collection, species by species, and of permanent labels giving all available information for each specimen, has been continued for the Divisions of the Haloids, Oxides, and Carbonates. In the course of this work slips have been prepared for the specimens of xanthosiderite, beauxite, psilomelane, wad, hollandite, chalcophane, and calcite; permanent labels have been written for the specimens belonging to thirty-eight species in the Haloid Division, twenty-six species in the Oxide Division, and for all the specimens of calcite in the Crystal and Introductory Collections; and descriptive labels have been written for the species cuprite, spinel, magnetite, chromite, uraninite, and chrysoberyl.

The slip-list of the more valuable specimens in the Collection has been brought up to date, and the position of each of the specimens in the Collection has been noted.

458 new labels for locality, species, variety, pseudomorphs, meteorites, and meteorite-casts have been printed and placed in the exhibition cases to replace written labels, and the corresponding entries have been made in the alphabetical and topographical indexes of localities.

The slip-catalogue of rocks in the species collection has been completed, and the preparation of an alphabetical list of rock names represented in the Collection has been in progress.

One hundred and eighty thin-sections of rocks have been microscopically examined and catalogued.

The preparation of a copy of the register of the specimens in the Collection has been continued, and permanent labels containing particulars drawn from the register have been prepared for the specimens of minerals acquired during the year.

III.—*Preparation.*

Two hundred and eighty-four thin-sections of rocks and meteorites have been prepared.

A mould and casts of the Wold Cottage meteorite and a cast of the Daniel's Kuil meteorite have been prepared.

IV.—*Investigation.*

A crystallographic investigation of a large additional series of specimens of zeolites from Co. Antrim has been made. Many crystals, including some complex twins of chabazite, have been measured and a new mode of twinning has been noted. Specimens of phacolite and gmelinite have also been chemically analysed. Crystals of the following species have been measured:—Calaverite, calcite, cohenite (from the Coahuila

meteoric iron), corundum, garnet, gypsum (showing a new type of twinning and new forms), hornblende, livingstonite, nephelite, sartorite, schwartzembergite, and zircon. Specimens of laurionite, paralaurionite, and other lead minerals from Laurion have been examined and their optical characters have been determined.

The investigation of the metamorphic rocks collected by the Scott Antarctic Expedition has been in progress.

Collections of rocks from Vesuvius, Rhodesia, Tunis, and Persia, and a series of specimens collected by the late Sir John Richardson on Sir John Franklin's second Arctic Expedition have been examined. Stone implements from Wiltshire have been investigated.

Investigations have been made of the meteoric irons of Uwet and Angela, and the meteoric stones of Crumlin and Kota Kota.

In the chemical laboratory, quantitative analyses have been made of specimens of phacolite and gmelinite from Co. Antrim, and the meteorites of Crumlin, Uwet, and Angela; re-determinations of iron and nickel have been made in the Baroti and Wittekrantz meteoric stones; and many doubtful minerals have been qualitatively analysed.

V.—*Departmental Library.*

Arrangement.—Letters of the years 1800 to 1913 inclusive have been arranged in order and inserted in guard-books of 28 volumes.

Cataloguing and Press-marking.—606 volumes and 566 title-slips have been press-marked or re-press-marked. All the accessions, including 1,602 plates, have been catalogued and stamped.

Proofs of the Library Catalogue have been read and checked against the slip-catalogue in the Department.

Accessions.—52 volumes of separate works, 34 periodicals (in 329 volumes and parts), 25 pamphlets, 17 parts of works, 45 mining and survey reports, and 8 sheets of maps have been added to the Library. These were acquired as follows:—

By presentation. — 7 volumes of separate works, 9 periodicals (in 103 volumes and parts), 15 pamphlets, 3 parts of works, 2 sheets of maps, and 40 mining and survey reports.

By purchase. — 45 volumes of separate works, 25 periodicals (in 226 volumes and parts), 5 pamphlets, and 9 parts of works.

By transfer.—5 pamphlets, 5 parts of works, 6 sheets of maps, and 5 mining and survey reports.

Binding.—85 volumes have been bound.

VI.—*Publications.*

New editions of An Introduction to the Study of Minerals (14th edition), A Guide to the Mineral Gallery (12th edition), The Student's Index to the Collection of Minerals (25th edition), and An Introduction to the Study of Meteorites (11th edition) have been issued.

The following papers, mostly relating to specimens in the Collection, have been published during the year in the "Mineralogical Magazine and Journal of the Mineralogical Society," 1914, vol. xvii :—

"The Meteorites of Uwet, Kota Kota, and Angela: redeterminations of nickel and iron in the Baroti and Wittekrantz meteoric stones (with Plates V. and VI.)": by G. T. Prior (xvii, p. 127).

"Note on the pleochroism of Adamite": by L. J. Spencer (xvii, p. 114).

"An apparatus for cutting crystal-plates and prisms": by H. H. Thomas and W. Campbell Smith (xvii, p. 86).

VII.—*Acquisitions.*

1,985 specimens have been acquired, namely :—

1,528 minerals, 453 rocks, and 4 meteorites.

The most important of these acquisitions is a large collection of zeolites from various foreign localities which has been presented by Mr. F. N. A. Fleischmann (*see* p. 203).

An exchange of specimens has been arranged with Mr. J. H. Collins, of Par, Cornwall.

The following mineral names added to the Museum List were previously not represented by specimens in the collection :—

Barthite, beresovite (of Samojlov), bogoslovskite, cobalt-nickelpyrite (of Henglein), custerite, cyanochalcite, goyazite, grängesite, hodgkinsonite, hügelite, kochelite, küstelite, leptonematite, melanochalcite, mossite, otavite, ranite, roscherite, stichtite, thortveitite, wilkeite.

The specimens acquired by presentation (arranged alphabetically according to donors) and by exchange, and a selection of the more important of those obtained by purchase, are as follows :—

Minerals.

By Presentation :

Anthracite (Welsh coal) showing concretionary ("cone-in-cone") structure: *by the Lords Commissioners of the Admiralty.*

Bowenite from Soochow, China: *by E. Alabaster, Esq.*

A large collection of foreign zeolites and other valuable specimens: *by F. N. Ashcroft, Esq.* (*see F. N. A. Fleischmann, Esq.*).

Garnet (almandine) and tourmaline crystals from Carnarvon, Western Australia: *by H. Barnes, Esq.*

Livingstonite in gypsum breccia from Huitzuco, Mexico: *by A. H. Bromly, Esq.*

Rutile from Buckingham, Quebec: *by Stopford Brunton, Esq.*

A series of specimens, comprising alum, sulphur, &c., collected by the donor during his descent to a depth of 1,212 feet inside the crater of Vesuvius on December 21, 1913: *by Frederick Burlingham, Esq.*

Diamond, a partially-cut black stone and a curiously-shaped crystal, from Kimberley, South Africa: *by G. H. Clapham, Esq.*

Claudetite from Sotiel mine, Huelva, Spain: *by J. H. Collins, Esq.*

Steatite from Barberton district, Transvaal, South Africa: *by T. D. Cunningham, Esq.*

A series of specimens which probably formed part of the Pennant Collection, viz., cerussite, anglesite, lanarkite, pyromorphite, and linarite from Leadhills, Lanarkshire, mesolite from Færoe Islands, and siliceous sinter: *by the Right Hon. the Earl of Denbigh, C.V.O.*

Artificial tridymite: *by Allan B. Dick, Esq.*

Agate in spherulitic felsite from Colle de Grane, Esterel Mtns., Var, France: *by Dr. J. Drugman.*

Pyrophyllite pseudomorphous after quartz crystals, from the nickel-ore (garnierite) vein, St. John's Island, Red Sea: *by the Director of Geological Survey of Egypt.*

A large and valuable collection of zeolites, comprising 1,190 choice specimens and representing 101 foreign localities for this group of minerals. This is a portion of the private collection of minerals which Mr. Ashcroft has formed during the last fifteen years. The value of the collection is considerably increased by the very precise information as to the exact locality and mode of occurrence, together with references to the literature, which is given on the printed labels accompanying each specimen. Special mention may be made of the very large series of fine specimens from West Paterson and Great Notch in New Jersey, and from Iceland.

In addition to the above collection, miscellaneous choice specimens have been given on several occasions, namely: a fine group of crystals of dioptase from Reneville, French Congo; a fine group of crystals of hopeite from Broken Hill, North-Western Rhodesia; serpierite from Laurion, Greece; fluor from Rabenstein, Silesia, and from Hesselbach mine, Baden; albite from Frossnitz Alpe, Tyrol; willemite from Franklin Furnace,

New Jersey. Also payment in part was made for the large crystal of apatite from Salzburg (*see* p. 206): *by F. N. A. Fleischmann, Esq.* (afterwards *F. N. Ashcroft, Esq.*).

Specimens of black diamond from the Premier mine, Transvaal: *by P. R. Frames, Esq.*

Chalcedony nodules in shell-limestone from Reid Hill, Alberta, Canada: *by W. J. Greenaway, Esq.*

Manganese ores (psilomelane, braunite, rhodonite, &c.) from the Balaghat and Bhandara districts, Central Provinces, India: *by J. A. Heppel, Esq.*

A large and interesting series of thin sections and of specimens of minerals and rocks, many of which have been figured and described, mostly by Prof. Judd himself, in the "Mineralogical Magazine," the "Geological Magazine," the "Quarterly Journal of the Geological Society," or elsewhere. It includes specimens and thin sections of minerals and rocks from the Ruby mines, Mogok, Upper Burma, and gem-stones and associated minerals from Chantabun, Siam: *by the Governing Body of the Imperial College of Science and Technology, London, at the request of Prof. J. W. Judd, C.B., F.R.S.*

Juddite with blanfordite from Kacharwahi, Central Provinces, India: *by Prof. J. W. Judd, C.B., F.R.S.*

Diamond and gem-gravel from the Jiblong diamond field, Liberia, West Africa: *by the Directors of the Liberian Development Co., Ltd.*

Bologna argol: *by D. Magnus, Esq.*

Specimens of native silver, smaltite, and erythrite, from the Cobalt mining district, Ontario, Canada: *by Montague Mahaffy, Esq.*

Cordierite, fresh crystal in granite, from Ivybridge, Devon: *by F. P. Mennell, Esq.*

Cassiterite, three crystals from Northern Nigeria: *by Dr. Richard Pearce.*

Livingstonite from Huitzuco, Mexico: *by Sir Alexander Pedler, C.I.E., F.R.S.*

Fibrolite, a transparent, pale-blue pebble, from Ceylon: *by Francis Powell, Esq.*

Spodumene from Steinkopf, Little Namaqualand, South Africa, and pipes of agalmatolite, worked by Hottentots, from Little Namaqualand: *by Dr. A. W. Rogers.*

Specimens of sulphur from Poggio Orlando mine, Siena, Italy: *by Henry Ruffer, Esq.*

About half the value of the large crystal of lilac-coloured spodumene (p 205) from Pala Chief mine, San Diego Co., California: *by Frank A. Salmons, Esq.*

Kämmererite, two specimens from Nikka Vord, Unst, Shetland, and two of uvarovite from Baltasound, Shetland: *by W. G. W. Sandison, Esq.*

Custerite (a new species described by the donor) from Custer County, Idaho: *by Dr. Waldemar T. Schaller.*

Native copper from China, and natrolite from Colorado: *by Dr. W. R. Schoeller.*

Augite crystals from Bail Hill, Dumfriesshire, described by the donor: *by Alexander Scott, Jr., Esq.*

A series of mineral specimens collected by the donor, comprising heulandite, orthoclase, talc, apatite, albite, and tourmaline from Cornwall, pectolite from Wales, and labradorite from Ireland, the last described by him in Mineralogical Magazine, 1912, vol. xvi, p. 267: *by W. Campbell Smith, Esq.*

A large specimen of stichtite with serpentine, from Zeehan, Tasmania: *by R. C. Sticht, Esq.*

A faceted bluish-green spinel from Ceylon: *by E. J. Wey land, Esq.*

Crystals of scheelite and wolframite from New South Wales: *by Franklin White, Esq.*

Native silver, magnetite, and garnet from Tannu-ola Mts., Mongolia: *by S. F. G. White, Esq.*

Beekite with chalcedony and quartz crystals from Dundry Hill, Bristol: *by W H. Wickes, Esq.*

Topaz, three crystals from Jos, Northern Nigeria: *by A. S. Williams, Esq.*

Stichtite, three specimens from Zeehan, Tasmania: *by Luke Williams, Esq.*

By Exchange:

Stannite from Wheal Kitty, St. Agnes, Cornwall.

By Purchase:

Spodumene, a fine large crystal, clear and transparent, of a rich lilac colour and markedly pleochroic, measuring $27{\cdot}5 \times 7 \times 2$ cm. and weighing 770·5 grams, from Pala Chief mine, San Diego Co., California. (This specimen is a part presentation from Frank A. Salmons, Esq., the president of the mining company.) Also from the same mine, smaller crystals of pink spodumene embedded in a matrix of pegmatite.

Phlogopite, a large isolated crystal weighing $64\frac{1}{2}$ lb., from Wakefield, Quebec, and a cleavage plate showing zonal banding from South Burgess, Ontario.

Gold, a fine spray of crystallized gold springing from a mass of quartz and embracing and partly enclosed in a clear crystal of quartz, from Dalmatia mine, El Dorado Co., California.

Hæmatite, an isolated tabular crystal measuring 9 cm. across, from the Ural Mts.

Hopeite and tarbuttite, fine crystallized groups from Broken Hill, North-Western Rhodesia.

Corundum (ruby), a group of crystals showing the unusual association with brown tourmaline, from Upper Burma.

Apatite, an isolated, parallel grouping of crystals, transparent and of a delicate mauve colour, measuring 8 × 4 × 3 cm., from Untersulzbachtal, Salzburg. This specimen was described and figured in "Mineralogical Magazine," vol. v, p. 198. (A part presentation by F. N. A. Fleischmann, Esq.) Vanadinite as distinct crystals from Wanlockhead, Dumfriesshire, anatase from Brazil, schraufite, minium, euchroite as large crystals, and chessylite from Laurion, Greece. (All from Mr. Kendall Hazeldine's collection.)

Beryl, four isolated crystals, clear and of pale emerald-green colour, from Bom Jesus das Meiras, Bahia, Brazil.

Precious opal, three specimens representing a new find in Humbolt Co., Nevada.

Rhodizite, an isolated crystal weighing 9·85 grams; a doubly-terminated clear crystal of pink spodumene, 8 cm. in length; a well-shaped prism of dark green beryl; two isolated crystals of clear, pale-yellow orthoclase; tscheffkinite; strüverite, betafite, corundum, &c., all from Madagascar.

Uraninite (pitchblende) a large crystal weighing 572 grams from Uluguru Mts., German East Africa.

Sulphur, a fine, large, symmetrically-developed crystal (10 × 9 × 8 cm.) from Cianciana, Girgenti, Sicily.

Iridosmine, a nugget weighing 54·139 grams from Tasmania.

Cassiterite, a well-formed bipyramidal crystal, 6 cm. across, from Randa, Northern Nigeria; and cassiterite from the Belgian Congo.

Thortveitite, two specimens of this new species (a silicate of scandium, yttrium, &c.); also risörite, cleveite, blomstrandite, &c., all from Norway.

Leucophoenicite, hodgkinsonite, franklinite in cubes, zincite crystals, pyrochroite crystals, and willemite as colourless crystals, from Franklin Furnace, New Jersey; harmotome from Yonkers, New York; a cut sphere of rose-quartz from Oxford County, Maine; cuprodescloizite from Bisbee, Arizona; a large, well-formed crystal of microcline (amazon-stone) from Pike's Peak, Colorado; ludwigite from Philipsburg, Montana; a large mass of pollucite from Buckfield, Maine; spangolite from Tintic, Utah; caledonite from Idaho; and various other species to represent mineral occurrences in the United States of North America.

Faceted gems of purple spinel, brown tourmaline, and green tourmaline.

Mangan-idocrase and chrome-idocrase from Montreal Chrome mine, Quebec; large rough crystals of elæolite with sodalite

from Bancroft, Ontario; spinel, sahlite, and other Canadian minerals.

Finely crystallized specimens of calcite and barytes from Cumberland and of fluor from Weardale, Co. Durham.

Beryl, a group of large rough crystals of a pale emerald-green colour in mica-schist; crystallized specimens of epidote, magnetite, hæmatite, and other minerals from the Ural Mountains.

Rocks.

By Presentation:

The series of rock specimens collected by the late Sir John Richardson on Sir John Franklin's second expedition in 1825–27 to the shores of the Polar Sea, and described in an appendix to Sir John Franklin's narrative: *by the Lords Commissioners of the Admiralty, through Surgeon-General John J. Dennis F.R.S.*

Rock specimens and silicified wood from Reduccion, Paraguay: *by Chas. Stanley Barnes, Esq.*

Specimens of hornblende-schist with garnet, and diamondiferous rocks, from South Africa, mainly the northern Transvaal: *by J. Berry, Esq.*

Volcanic bombs and recent lava collected by the donor at depths down to 1,212 feet inside the crater of Vesuvius: *by Frederick Burlingham, Esq.*

Basalt from Castelo di Moio, Flores, Azores: *by Col. F. A. Chaves.*

Rocks from South Georgia collected by Mr. P. Stammwitz on the late Major G. E. H. Barrett-Hamilton's Expedition, 1913–4: *by the Colonial Office, London.*

Two polished slabs of verdite from Barberton district, Transvaal, South Africa: *by T. D. Cunningham, Esq.*

Specimens of spherulitic felsite filled with agate, and of pitchstone from Colle de Grane, Esterel Mts., Var, France: *by Dr. J. Drugman.*

A series of thin sections and specimens of rocks described by Prof. Judd and others, namely: rockallite from Rockall, North Atlantic; rocks from Scotland, the Ruby mines near Mogok, Upper Burma, and Korea; thin sections of chips from Stonehenge, Wiltshire; corundum rocks from India, etc.: *by the Governing Body of the Imperial College of Science and Technology, London, at the request of Prof. J. W. Judd, C.B., F.R.S.* (*see* p. 204).

Volcanic dust from south-west Alaska: *by Rev. Canon J. H. Keen.*

Granite with cordierite from Ivybridge, Devonshire, and andalusite-hornfels from Nodden Quarry, near Bridestowe station, Devonshire: *by F. P. Mennell, Esq.*

A series of twenty-four typical igneous rocks from the Highwood Mtns., Montana, and from New Hampshire and Arizona: *by Prof. L. V. Pirsson.*

Diamondiferous gravel from the Jiblong River, Liberia, West Africa: *by Henry Reeve, Esq.*

Rock specimens from Avala, near Belgrade, Servia, and from Co. Donegal and Co. Galway, Ireland: *by Arthur Russell, Esq.*

Rock specimens from Lokow, Hunan, Central China: *by Miss Kathleen V. Riley.*

Davainite (a new rock type) from Garabal Hill, Dumbartonshire: *by Alex. Scott, Esq.*

Rock specimens from Red Rock copper mine, Callanan Co., New South Wales: *by Franklin White, Esq.*

Four small rock specimens from Tannu-ola Mts., Mongolia: *by S. F. G. White, Esq.*

Silicate-hornfels with andalusite, from Sticklepath, Devonshire: *by Dr. E. H. Young.*

By Purchase:

A set of twenty-nine rock specimens, with the corresponding micro-sections, from Nordingrå district, Sweden.

A set of nine specimens of rocks and ores, with the corresponding micro-sections, from the manganese ore deposits at Brosteni, Roumania.

A set of thirty-six specimens of igneous rocks, with the corresponding micro-sections, from various localities in the United States.

Banded marble from Argyllshire; rodingite from Nelson, New Zealand; ijolite from Iivaara, Finland; and other miscellaneous specimens.

Meteorites.

By Presentation:

Kuttipuram, Malabar, India, a fragment weighing 25 grams of the stone which fell on 6 April 1914: *by Neville Priestley, Esq.*

Wittekrantz.—Beaufort West, Cape Colony, a fragment weighing 70 grams of the smaller stone which fell on 9 December 1880: *by the Director of the South African Museum, Cape Town.*

By Purchase:

Mount Edith, Ashburton, Western Australia, an etched slilic weighing 1,048 grams of the iron found in 1913: also a model of the complete mass.

Toyah, Reeves Co., Texas, a fragment weighing 41 grams of this iron.

The above meteorites belong to falls hitherto unrepresented in the Museum Collection.

VIII.—*Donations of Duplicates.*

Duplicate specimens of minerals have been given to the Museum of the Borough of Colne, Lancashire, a duplicate cast of the Daniel's Kuil meteorite to the Director of the South African Museum, Cape Town, and a duplicate specimen of Blue Ground to Mr. C. Maitland.

IX.—*Students and Visitors.*

The number of visits recorded as made to the Department for the purposes of consultation or study is 717. Many specimens of minerals and rocks have been determined for visitors and correspondents.

X.—*Demonstrations.*

A demonstration on gem-stones in the collection has been given to members of the Wimbledon Natural History Society.

G. T. Prior.

Department of Botany.

I.—*Arrangement and Conservation.*

During the past year 32,025 specimens have been incorporated with the Herbarium. This number includes 27,200 Flowering Plants, 1,735 Vascular Cryptogams, 48 Mosses, 23 Hepatics, 1,193 Lichens, 1,354 Algæ, and 472 Fungi.

Flowering Plants.—Additions acquired during the year by donation, purchase and exchange, have been mounted and incorporated wholly or in part. Progress has been made with the determination, selection, and incorporation of the early Australian and other collections, and outstanding specimens have been determined and incorporated in various families, especially Melastomaceæ, Samydaceæ, Combretaceæ, Umbelliferæ, Vacciniaceæ, Convolvulaceæ, Boraginaceæ, Solanaceæ, Scrophulariaceæ, Bignoniaceæ, Verbenaceæ, Labiatæ, Plantaginaceæ, and Lauraceæ.

Work of revision and re-arrangement has been done in various families especially Melastomaceæ, Vacciniaceæ, Gentianaceæ, and in several genera, especially *Oxalis, Crotalaria,* and *Veronica.*

The separation, revision, and re-arrangement of the European specimens, and the incorporation of outstanding material, has been continued to the end of the family Compositæ.

Ferns and Mosses.—The selection and incorporation of outstanding collections of Ferns has been continued, and various collections from Madeira have been determined and selected. Progress has been made with the incorporation of various collections of Indian Mosses.

Algæ.—Various published sets have been incorporated and progress has been made with the re-arrangement of the Florideæ, including the incorporation of outstanding material,

Fungi and Lichens.—In the general collection all outstanding specimens have been incorporated in the Phycomycetes, and to a great extent also in the Pyrenomycetes. The Polyporaceæ have been re-arranged. All outstanding British specimens have been incorporated, and the Discomycetes have been revised. Progress has been made with the revision and incorporation of the British Lichens.

Mycetozoa.—With the assistance of Miss G. Lister, various new collections have been prepared for incorporation.

Exhibition Series.—The revision of the large exhibition cases in the Public Gallery has been continued; several cases have been cleaned and repainted, the specimens cleaned or replaced and the labels revised; various additions have also been made. Progress has been made with the preparation of specimens for a re-arrangement of the portion illustrating the Algæ, and with the exhibition of the British Seaweeds. In the Index Museum in the Central Hall the exhibition of Mosses and

Liverworts has been completed and progress made with the preparation for the exhibition of Algæ. A scheme has been prepared for the Botanical portion of the new General Exhibition to be placed in the Hall.

Catalogues and Guides.—A second part of the *Flora of Jamaica* by Mr. W. Fawcett and Dr. Rendle has been published, and progress has been made with the preparation of the text and illustrations for a third part. Progress has been made with the preparation of the *Catalogue of the Sloane Herbarium* by Mr. J. Britten, and with the revision of the first volume of the *Catalogue of British Lichens* and the preparation of a guide to the exhibition of British Lichens by Miss Annie Lorrain Smith.

II.—*Investigation.*

Collections have been determined wholly or in part from the following localities and collectors :—New Guinea (Wollaston expedition), Angola (Gossweiler), South Nigeria (Amaury Talbot), Uganda (Dümmer), Soudan (Lynes), Chile (Calvert), New Caledonia (Compton), and various smaller collections from different localities.

Dr. Rendle has devoted some time to the study of the Tropical African species of the family Moraceæ, and Mr. W. Fawcett and Dr. Rendle have continued their work on the Jamaica species of the families of Dicotyledons. Mr. Baker has studied monographically the genera *Napoleona*, *Indigofera* (Tropical African species), and *Plantago* (British species). Dr. Wernham has continued his work on various genera of the family Rubiaceæ, and Mr. Wilmott has made a critical study of various European genera and species. Mr. Gepp has investigated small collections of Algæ from the Antarctic and South Georgia ; and Mr. Ramsbottom has described a number of new British Microfungi contained in the collections or sent by correspondents for investigation ; he has also, by permission, investigated for the Local Government Board the relation between *Mucor racemosus* and *Empusa Muscæ*.

Assistance has been given to numerous British and foreign workers engaged on special investigations, and many specimens and small collections have been determined for collectors and students.

In connection with work done in the Department, specimens have been generously lent by the Director of the Royal Gardens, Kew ; the Regius Keeper of Botany, Edinburgh ; the Bristol Museum ; the Government of Jamaica ; and the Director of the Royal Botanic Gardens and Museum, Berlin.

Undetermined material has been lent for study and determination as follows :—3 specimens of H. O. Forbes's New Guinea plants to Mr. H. N. Ridley ; 1 specimen of *Oxalis* from Brazil to the Director of the Botanical Department, Riksmuseets, Stockholm ; 2 specimens of *Xyris* from Australia to Dr. G. Malme, Stockholm ; 77 Indian specimens to Mr. S. T.

Dunn; 53 specimens of *Orobanche* to the Director, Botanic Garden, Prague; 50 specimens of *Annona* to Mr. W. E. Safford, Bureau of Plant Industry, Washington, D.C., U.S.A.; 147 specimens of Crassulaceæ to M. Raymond Hamet; 46 specimens of *Bidens* to Prof. J. M. Coulter, University of Chicago; 36 specimens of *Thesium* and 11 Thymelæaceæ from South Africa to the Director, Royal Gardens, Kew; and 20 specimens of Mycetozoa to Miss G. Lister.

III.—*Departmental Library.*

1. *Arrangement, Cataloguing, and Pressmarking.*—The registering, stamping, and cataloguing of additions to the library and other routine work has been carried out. Departmental assistance in connection with the Catalogue of the Library published by the Trustees has been continued. Additions to the Plate and Autograph Collections have been mounted and incorporated. Four presses have been placed in the New Herbarium, and a selection of books on European botany has been transferred to them. Sowerby's drawings for the "English Botany," which were formerly kept in herbarium cabinets, have been accommodated in a new window-press in the Library.

2. *Accessions.*—The additions during the year have been, by donation, 90 volumes, 199 pamphlets; by purchase, 103 volumes—in all, 193 volumes and 199 pamphlets. These numbers include 20 periodicals in 296 parts, presented, and 61 periodicals in 442 parts, purchased—in all 81 periodicals in 738 parts.

The following is a list of the principal donors:—Oakes Ames, A.M., F.L.S.; M. Perrier de la Bathie; Dr. G. E.C. Beauvisage; The Minister for the Colonies, Belgium; Royal Botanical Society, Belgium; Director, Botanic Gardens, Berlin; Georg Bitter, Esq.; Rev. E. Blatter, S.J.; Dr. F. C. E. Børgesen; G. S. Boulger, F.L.S.; T. S. Brandegee, B.S.; Director, Botanical Office, Victoria, British Columbia; J. Britten, F.L.S.; Director, Botanic Gardens, Brussels; Dept. of Agriculture of the Dutch East Indies, Buitenzorg; Director, Botanical Survey of India, Calcutta; Director, Royal Botanic Gardens, Calcutta; Trustees, Bolus Herbarium & Library, Cape Town; J. Cash, Esq.; Director of Agriculture, Ceylon; Miller Christy, F.L.S.; Crown Agents for the Colonies; G. C. Crick, F.G.S.; C. Crossland, F.L.S.; Prof. H. H. Dixon, D.Sc.; Regius Keeper, Royal Botanic Garden, Edinburgh; Prof. A. J. Ewart, D.Sc., Ph.D.; W. Fawcett, B.Sc.; Curator, Dept. of Botany, Field Museum, Chicago; Dr. Robert E. Fries; M. A. Guillaumin; Dr. Hans Hallier; M. Raymond Hamet; Prof. J. W. Harshberger; Dr. Bunzo Hayata; R. Selby Hole, F.L.S.; the late Dr. J. Huber; Prof. T. Johnson, D.Sc.; Col. H. H. Johnston, C.B.; Director, Royal Botanic Gardens, Kew; Frau A. Koorders-Schumacher; Miss C. E. Larter, F.L.S.; Prof. Henri Lecomte; Director, Rijks Herbarium, Leiden; C. G. Lloyd, Esq.; Linnean

Society, London; Royal Botanic Society, London; Royal Horticultural Society, London; R. Marloth, Ph.D.; E. D. Merrill, M.S.; Director, Missouri Botanic Garden, St. Louis; Spencer Moore, B.Sc.; W. A. Nicholson, Esq.; Nederlandsche Botanische Vereeniging, Nijmegen; Director, Dept. of Mines, Geological Survey, Ottawa, Canada; Mrs. H. Perrin; Director, Agricultural Research Institute, Pusa, Bengal; Dr. A. B. Rendle, F.R.S.; H. N. Ridley, C.M.G., F.R.S.; W. E. Safford, Esq.; C. E. Salmon, F.L.S.; Director, Imperial Academy of Science, St. Petersburg; Prof. C. S. Sargent; C. D. Sherborn, F.Z.S., A.L.S.; Director, Raffles Museum, Singapore; Editor, Agricultural Journal of the Union of S. Africa, Pretoria; Kungliga Svenska Vetenskaps-Akademien, Stockholm; Walter T. Swingle, Esq.; Director, Botanic Gardens, Sydney, N.S.W.; Tokyo Botanical Society, Tokyo; Director, Botanic Gardens, Utrecht; Director, Dept. Botanical Research, Carnegie Institute, Washington, D.C.; U.S. National Museum, Washington; Watson Botanical Exchange Club; and Director, Botanic Garden and Museum, Zürich.

The following donations other than books have been received:—A collection of about 200 original drawings of Asiatic and N. American plants, by various artists, was presented by Hon. Mrs. Wm. Feilding; 28 original drawings of plants, mainly Cycads, formerly the property of James Yates (1789–1871), were presented by the President and Council of the Linnean Society.

3. *Binding.*—166 volumes, including one of the Sloane Herbarium, have been bound and several others repaired.

IV.—*Publications.*

(1) *Issued by the Trustees.*—Flora of Jamaica, Vol. III., Dicotyledons, Part I. By Mr. W. Fawcett and Dr. Rendle.

A Monograph of the Genus *Sabicea.* By Dr. Wernham.

(2) *Issued by the permission of the Trustees.*—Bambuseæ in Plantæ Wilsonianæ. By Dr. Rendle. (Arnold Arboretum Publication. Edited by C. S. Sargent.)

Plants from the Eket District, S. Nigeria, collected by Mr. and Mrs. P. Amaury Talbot. By Dr. Rendle, E. G. Baker, S. Moore, and Dr. Wernham. (Journal of Botany.)

A New *Annona* from Jamaica. By Dr. Rendle and Mr. W. Fawcett. (Journal of Botany.)

Notes on Jamaican Species of *Capparis.* By Dr. Rendle and Mr. W. Fawcett. (Journal of Botany.)

A Contribution to the Flora and Plant Formations of Mount Kinabalu and the Highlands of British North Borneo. Phanerogamæ.—By Miss L. S. Gibbs, assisted by S. Moore, Dr. Rendle, Mr. H. N. Ridley, Mr. R. A. Rolfe, Dr. O. Stapf, and Mr. W. B. Turrill. Pteridophyta and Bryophyta.—By A. Gepp. Fungi and Lichens.—By Miss A. Lorrain Smith. Algæ (marine).—By

Mrs. E. S. Gepp. Algæ (fresh-water).—By Mr. W. West and Mr. H. Groves. (Journal of Linnean Society.)

The African Species of *Crotalaria*. By E. G. Baker. (Journal of Linnean Society.)

New Rubiaceæ from Tropical America, IV—V. By Dr. Wernham. (Journal of Botany.)

The Mussændas of Madagascar. By Dr. Wernham. (Journal of Botany.)

Enumeration of T. A. Sprague's South American Plants: Gamopetalæ. By Dr. Wernham. (Kew Bulletin.)

Alabastra Diversa, Parts XXIV and XXV. By S. Moore. (Journal of Botany.)

Three New Compositæ from Peru. By S. Moore and Mr. A. H. Moore. (Journal of Botany.)

A New Species of *Discinella*. By J. Ramsbottom. (Journal of Botany.)

Notes on the Nomenclature of some Rusts. By J. Ramsbottom. (Transactions, British Mycological Society.)

A List of the British Species of Discomycetes arranged according to Boudier's System with a Key to the Genera. By By J. Ramsbottom. (Transactions, British Mycological Society.)

Puccinia Smyrnii. By J. Ramsbottom. (Journal of Botany.)

New or Rare Microfungi. By J. Ramsbottom and Miss A. Lorrain Smith. (Transactions, British Mycological Society.)

An Investigation of Mr. Hesse's work on the supposed Relationship of *Empusa Muscæ* and *Mucor racemosus*. By J. Ramsbottom. (Reports on Public Health and Medical Subjects, Local Government Board.)

(3) *By Students of the Collections other than Members of the Staff.—Romulea Columnæ*. By Mr. J. Britten. (Journal of Botany.)

Lecanora isidioides Nyl. in the New Forest. By Mr. R. Paulson. (Journal of Botany.)

Hypericum Desetangsii. By Mr. C. E. Salmon. (Journal of Botany.)

Silene rigida Banks & Sol. By Mr. F. N. Williams. (Journal of Botany.)

Gibraltar Plants. By Major A. H. Wolley-Dod. (Journal of Botany.)

A Flora of Gibraltar and the Neighbourhood. By Major A. H. Wolley-Dod. (Journal of Botany.)

Miscellanea Bryologica, iii. By Mr. H. N. Dixon. (Journal of Botany.)

Report on the Mosses of the Abor Expedition, 1911–12. By Mr. H. N. Dixon. (Records, Botanical Survey of India.)

Report on the Mosses collected by Mr. C. E. C. Fischer and others from South India and Ceylon. By Mr. H. N. Dixon. (Records, Botanical Survey of India.)

Studies in the Bryology of New Zealand, Part ii. By Mr. H. N. Dixon. (Bulletin, New Zealand Institute.)

V.—*Acquisitions.*

(1) *By Donation.*

Additions to the British Herbarium have been received from the following donors:—The Council of the South London Botanical Institute, seeds of 9 species, mainly British; A. Bennett, Esq., 4 Phanerogams; J. E. Cooper, Esq., 9 species of Alien plants; J. Gaskill, Esq, a small collection of Lichens, mostly British; Rev. H. G. Jameson, 285 microscope-preparations of Hepaticæ; Miss G. Lister, 12 Mycetozoa; J. E. Little, Esq., 44 Phanerogams; Mrs. A. McCutcheon, 17 Vascular Cryptogams, collected by the Misses D'Arcy; Rev. E. S. Marshall, 179 Phanerogams; Major-General J. B. Richardson, 2 Phanerogams and 8 Cryptogams, collected by Sir John Richardson; C. E. Salmon, Esq., 25 Phanerogams; W. R. Sherrin, Esq, 2 Mosses from Cricksea, Essex; H. Stuart Thompson, Esq., 86 Mosses (mostly British) and a Hepatic; also single specimens from H. A. Britten, Esq.; W. Howard, Esq.; Miss L. Lyle; and Lieut. J. W. J. Raikes, R.E.

The following donations have been made to the General Herbarium:—

Europe.

Prof. I. Douin, 2 Mosses and 10 Hepatics from France; Mrs. A. McCutcheon, 3 Vascular Cryptogams; H. Stuart Thompson, Esq., 46 Phanerogams from Department Var, France; also single specimens from H. N. Dixon, Esq., and Hon. N. C. Rothschild.

Asia.

The Regius Keeper, Royal Botanic Garden, Edinburgh, 531 Phanerogams collected in Western China by E. E Maire, and 1,408 Phanerogams and 33 Cryptogams collected in Yunnan, Western China, by G. Forrest; J. C. Christie, Esq., a transverse section of Olive-wood from Jerusalem; H. N. Dixon, Esq., 16 Hepaticæ, mostly from India; H. C. Robinson, Esq. (through H. N. Ridley, Esq.), 91 Phanerogams and 3 Ferns from Selangor, 17 Orchids from Gunong Mengkuang, and 62 Phanerogams and 7 Ferns from Gunong Kerbau; and a Chinese specimen from the Director, Royal Gardens, Kew.

Africa.

The Trustees of the Percy Sladen Memorial Fund, 698 plants collected in South West Africa by Prof. H. H. W. Pearson, Miss R. Glover, and others; Lieut. G. St. J. Orde Browne, 91 Phanerogams and 5 Vascular Cryptogams from Mt. Kenya,

British East Africa; R. H. Bunting, Esq, 100 Phanerogams, 1 Fern, and 6 tubes of Freshwater Algæ from Sierra Leone; Mrs. M. E. Prescott-Decie, 184 Phanerogams and 7 Cryptogams from British East Africa; Capt. H. G. Lynes, 145 Phanerogams 3 Vascular Cryptogams, and 11 tubes of Diatoms, collected in the Nile and Red Sea Province; Mrs. A. McCutcheon, 39 Vascular Cryptogams collected in Madeira by the Misses D'Arcy; Dr. R. Marloth, 4 South African plants; R. E. Massey, Esq., 24 plants from the Sudan; the Hon. Walter Rothschild, F.R.S., 110 plants from South West, and 12 from Central, Algeria; T. A. Sprague, Esq., and J. Hutchinson, Esq., 3 plants from Madeira; Mr. and Mrs. P. Amaury Talbot, 141 Phanerogams from Degema, Southern Nigeria; Capt. N. R. Wilkinson, 42 species of Vascular Cryptogams, collected in Madeira by the late N. H. Mason; Miss E. S. Youngs, specimens and drawing of *Stapelia flavirostris* from Orange River Colony.

Australasia.

W. M. Cole, Esq., a small collection of New Zealand Cryptogams; Miss Mary Delprat, 38 Australian plants; Miss J. Heywood, 18 Lichens and 1 Moss from New Zealand; Dr. A. B. Rendle, 90 Phanerogams, a spike of *Xanthorrhœa quadrangulata*, and a ball of fibres of *Posidonia australis* from South Australia, 24 Phanerogams from Victoria, 14 Phanerogams from New South Wales, and 51 Cryptogams, and 3 tubes of Freshwater Algæ from South Australia, Victoria, and New Zealand; O. Sargent, Esq., 8 species of *Stylidium* from West Australia; Dr. F. Stoward, 26 Phanerogams from West Australia; and single specimens from H. N. Dixon, Esq., and R. E. Turner, Esq.

Oceania.

The Committee and Subscribers of the Wollaston Expedition to Dutch New Guinea, 1,714 Phanerogams, 189 Vascular Cryptogams and 1 Hepatic, collected by C. B. Kloss.

America.

The Colonial Secretary, through the Director of Agriculture, Jamaica, 9 Phanerogams from Jamaica; the Councils of the British Association and the Zoological Society of London, 17 Phanerogams and 72 Cryptogams, mostly collected in South Georgia by P. Stammwitz during the Barrett-Hamilton Expedition; the Hon. Cecil Baring, 29 Phanerogams and 6 Ferns from Brazil; A. Bennett, Esq., 23 Waterweeds, mostly American; Miss A. Calvert, 408 Phanerogams and 87 Cryptogams from Central Chile; Mrs. A. McCutcheon, 9 species of West Indian fruits; H. Edwards, Esq., specimens of *Attalea* fruits from Colombia; H. O. Forbes, Esq., 100 Phanerogams and 14 Cryptogams from Peru; L. R. Wheeler, Esq., 37 Phanerogams and 1 Fern from Antigua, West Indies; S. J. Wigley, Esq., 25 photographs of Canadian plants; and single specimens from A. H. Maude, Esq., H. Clinton Baker, Esq., Miss E. F. Noel, and the Superintendent of the Department of Agriculture of Barbados.

Cultivated Plants.

Dr. E. S. Blaker, 6 Phanerogams ; R. Grove, Esq., specimens of abnormal pears ; W. E. Ledger, Esq., 15 Phanerogams ; Messrs. H. B. May & Sons, 96 exhibition specimens of *Nephrolepis* and other Fern fronds ; Hon. N. C. Rothschild, 16 species of Orchids ; and single specimens from Dr. E. C. Bousfield and W. T. Swingle, Esq.

General.

Miss G. Lister, 49 Herbarium specimens and 37 Microscope-preparations of exotic Mycetozoa ; Mrs. R. H. Middleton, 92 hand-sections of Woods from Ceylon and elsewhere.

(2) *By Purchase.*

British Isles.

The Botanical Exchange Club, 309 Phanerogams (through G. C. Druce) ; Rev. W. Johnson, 40 specimens, being The North of England Lichen-Herbarium, Fasc. XII ; Rev. E. F. Linton, 12 specimens of Willows ; W. H. Pearson, 941 Hepaticæ ; Lloyd Praeger, 684 Irish plants (through R. Welch).

Europe.

Through Dulau & Co.—O. Jaap, 25 Fungi selecti exsiccati, ser. XXVII, and 20 Myxomycetes exsiccati, ser. VIII ; J. E. Kabát and F. Bubák, 50 Fungi Imperfecti exsiccati, fasc. XVI ; K. W. Krieger, 50 Fungi Saxonici exsiccati, fasc. XLVI ; J. Mikutowicz, 611 Mosses, Bryotheca Baltica, lief. XI–XIV, and Nachtrag, lief. I–X ; V. Schiffner, 200 Hepaticæ Europææ exsiccatæ, series X–XIII ; G. Seefeldner, 30 Algæ Adriaticæ, fasc. III ; T. Vestergren, 100 Micromycetes rariores selecti, fasc. LXIX–LXXII.

Through T. O. Weigel.—A. Fiori and A. Béguinot, Flora Italica exsiccata, cent. XIX, XX, and 10 micro-sections of Woods ; A. von Hayek, 50 Centaureæ exsiccatæ criticæ, fasc. II.

From the Publishers. — E. Collinder, 30 Rosæ Sueciæ exsiccatæ, fasc. I ; H. Dahlstedt, 54 Taraxaca Scandinavica, fasc. III ; F. Petrak, 140 specimens, Cirsiotheca Universa (mostly European), fasc. I–XIV, also 1,250 Cryptogams, Flora Bohemiæ et Moraviæ exsiccata, series II, being Abt. I, Pilze, lief. I-XXI (1,050 Fungi), and Abt. III, Moose, lief. I–IV (200 Mosses) ; H. Sudre, Batotheca Europæa, fasc XII, 50 specimens, and Herbarium Hieraciorum, fasc. IV, 50 specimens.

Asia.

Arnold Arboretum, U.S.A., 1,248 Phanerogams and 11 Ferns collected in China by E. H. Wilson ; Rev. J. Gurney Barclay, 174 Japanese Ferns ; A. D. E. Elmer, 660 Phanerogams and 189 Cryptogams from the Philippine Islands ; W. Siehe, Flora Orientalis, 148 selected specimens from Asia Minor.

Africa.

D. A. Bannerman, 19 Phanerogams and 1 Lichen from Eastern Canary Islands; E. Chiovenda, Flora della Colonia Eritrea, cent. III, IV, prepared by A. Pappi; A. R. Dümmer, 717 Phanerogams and 83 Cryptogams from Uganda; E. Gilg, 383 Phanerogams collected in the Cameroons by G. Zenker; C. Steyer, 768 Phanerogams and 32 Cryptogams collected in South Angola by J. Gossweiler; F. Wilms, 238 Phanerogams and 6 Cryptogams collected in Natal by H. Rudatis, and 197 Phanerogams and 1 Cryptogam from Nyassa, collected by A. Stolz.

Oceania.

J. E. Tilden, South Pacific Plants, 392 Phanerogams and 103 Cryptogams.

America.

E. Bartholomew, 300 Fungi Columbiani, cent. XLIII–XLV, and 300 North American Uredinales, cent. IX–XI; T. S Brandegee, 312 Phanerogams and 68 Vascular Cryptogams collected in Mexico by C. A. Purpus; A. Brinkman, 177 Mosses and 19 Hepatics from British Columbia; W. E. Broadway, 90 Phanerogams and 10 Vascular Cryptogams from Tobago, West Indies (through Mrs. E. J. Broadway); Collins, Holden, & Setchell, 50 Algæ, Phycotheca Boreali-Americana, fasc. XXXIX (through Dulau & Co.); K. Fiebrig, 306 Phanerogams and 31 Cryptogams from Paraguay (through P. Weber); T. Herzog, 198 Mosses from Bolivia (through T. O. Weigel); J. Macoun, 223 Canadian Cryptogams; C. Skottsberg, 220 Mosses and 184 Hepatics from Temperate South America; A. Tonduz, 74 Phanerogams and 26 Vascular Cryptogams from Costa Rica.

General.

Through Dulau & Co.—H. Rehm, 66 Fungi, Ascomycetes exsiccati, fasc. LIV, LV; H. Sydow, 100 Fungi exotici exsiccati, fasc. V, VI.

W. H. Pearson, 270 Hepaticae (European, American, and Asiatic); A. Zahlbruchner, 22 Lichenes rariores exsiccati (Nos. 166–187).

(3) *By Exchange of Duplicates.*

Oakes Ames, 127 Orchids from the Philippine Islands; Director, Arnold Arboretum, Jamaica Plain, Massachusetts, 86 Mexican Pines, collected by G. R. Shaw; Director, Royal Botanic Gardens, Calcutta, 65 Asiatic plants; Curator, National Museum, Melbourne, Victoria, 75 Australian plants; Director, Botanical Garden, New York, 144 Phanerogams, mostly from Jamaica; Director Herbarium, Muséum d'Histoire Naturelle, Paris, 1,069 Phanerogams and 104 Vascular Cryptogams, from Tropical Africa, China, New Caledonia, and Brazil; Curator, Department of Botany, Riksmuseets, Stockholm, 96 Temperate

South American Grasses; Director, National Herbarium, Sydney, New South Wales, 95 Australian plants; Curator U.S. National Museum, Washington, 200 American Grasses, collected by A. S. Hitchcock.

VI.—*Donation of Duplicates.*

A set of Wilson's British Mosses, comprising 500 specimens has been presented to the South London Botanical Institute, Norwood Road, S.E.

VII.—*Students and Visitors.*

The number of visits to the Department for consultation and research during the year was 3,164.

VIII.—*Demonstrations.*

Demonstrations on the collections have been given by Dr. Rendle to members of the South London Botanical Institute, by Mr. Baker to members of the Toynbee Hall Natural History Society, and by Mr. Ramsbottom to members of the Natural History Society of the South-Western Polytechnic.

A. B. Rendle.

RETURN.

BRITISH MUSEUM.

1915.

Ordered, by The House of Commons, *to be Printed,*
5 *July* 1915.

LONDON:
PRINTED UNDER THE AUTHORITY OF HIS MAJESTY'S STATIONERY OFFICE
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